

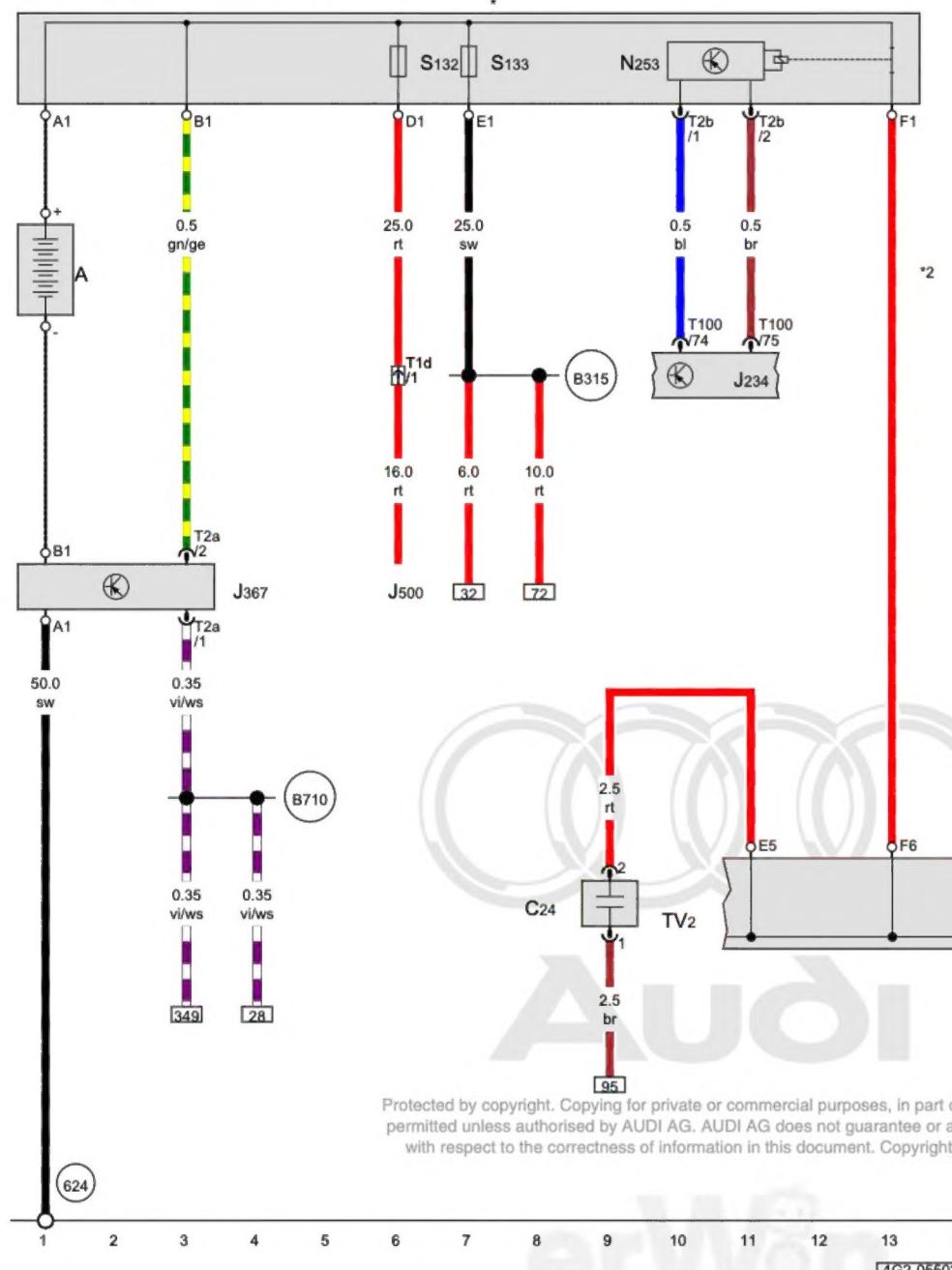
2.0L Gasoline Engine , CAEB,CAED,CDNB,CDZA
From February 2011



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**Battery, Suppressor, Battery Monitoring Control Module,
Battery Interrupt Igniter**



- A Battery
- C24 Suppressor
- J234 Airbag Control Module
- J367 Battery Monitoring Control Module
- J500 Power Steering Control Module
- N253 Battery Interrupt Igniter, Near the Battery
- S132 Safety Fuse 2
- S133 Safety Fuse 3
- T1d 1-Pin Connector, On the Left Front of the Vehicle Floor
- T2a 2-Pin Connector
- T2b 2-Pin Connector
- TV2 Terminal 30 Wire Junction
- T100 100-Pin Connector

624 Ground Connection near Starter Battery

B315 Positive Connection 1 (30a) (in Main Wiring Harness)

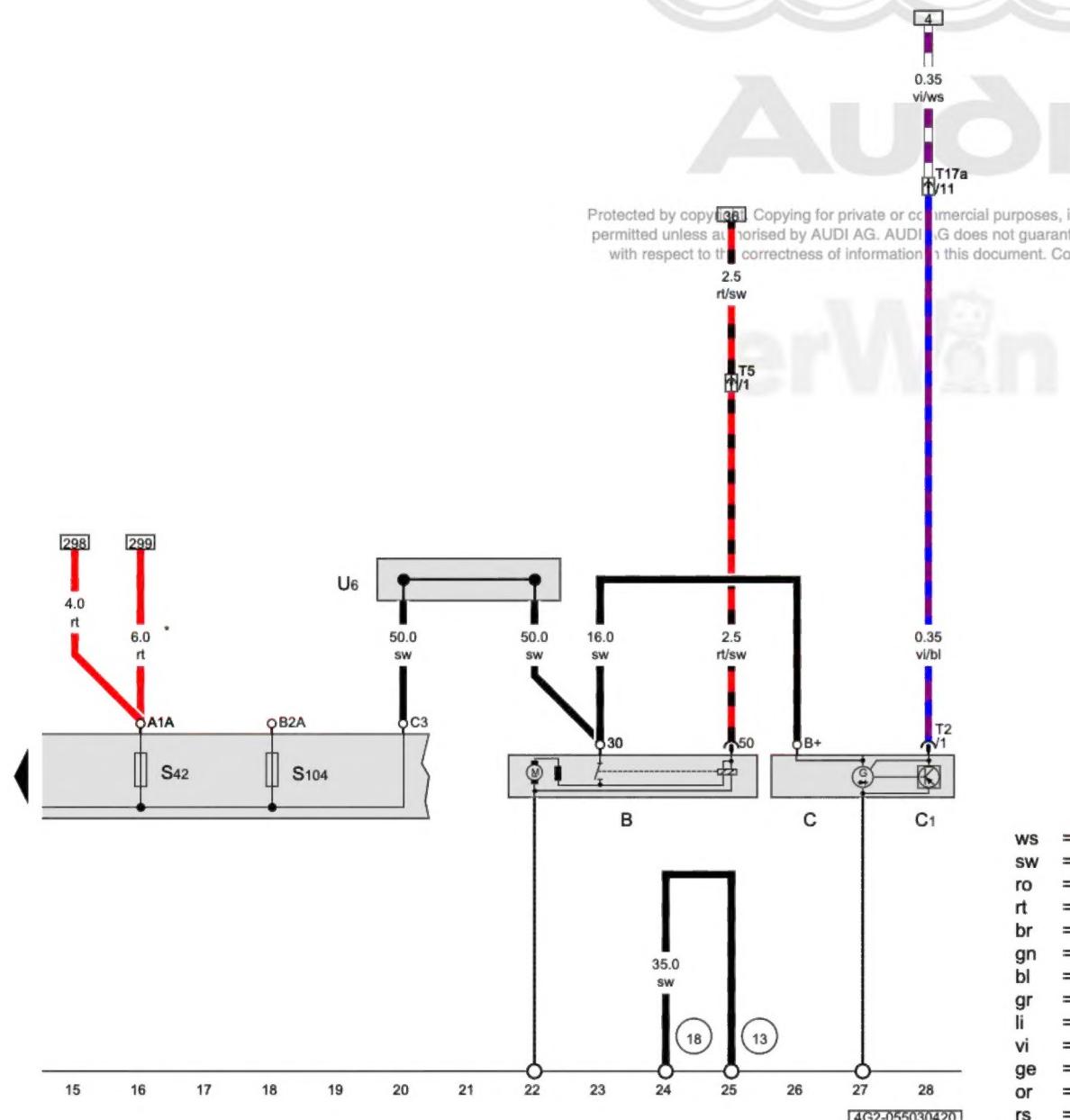
B710 LIN Bus Connection 5 (in Main Wiring Harness)

* Main Fuse Carrier in the Right Rear Luggage Compartment, at the Battery

*2 Flat Conductor

ws	= white
sw	= black
ro	= red
rt	= red
br	= brown
gn	= green
bl	= blue
gr	= grey
li	= lilac
vi	= lilac
ge	= yellow
or	= orange
rs	= pink

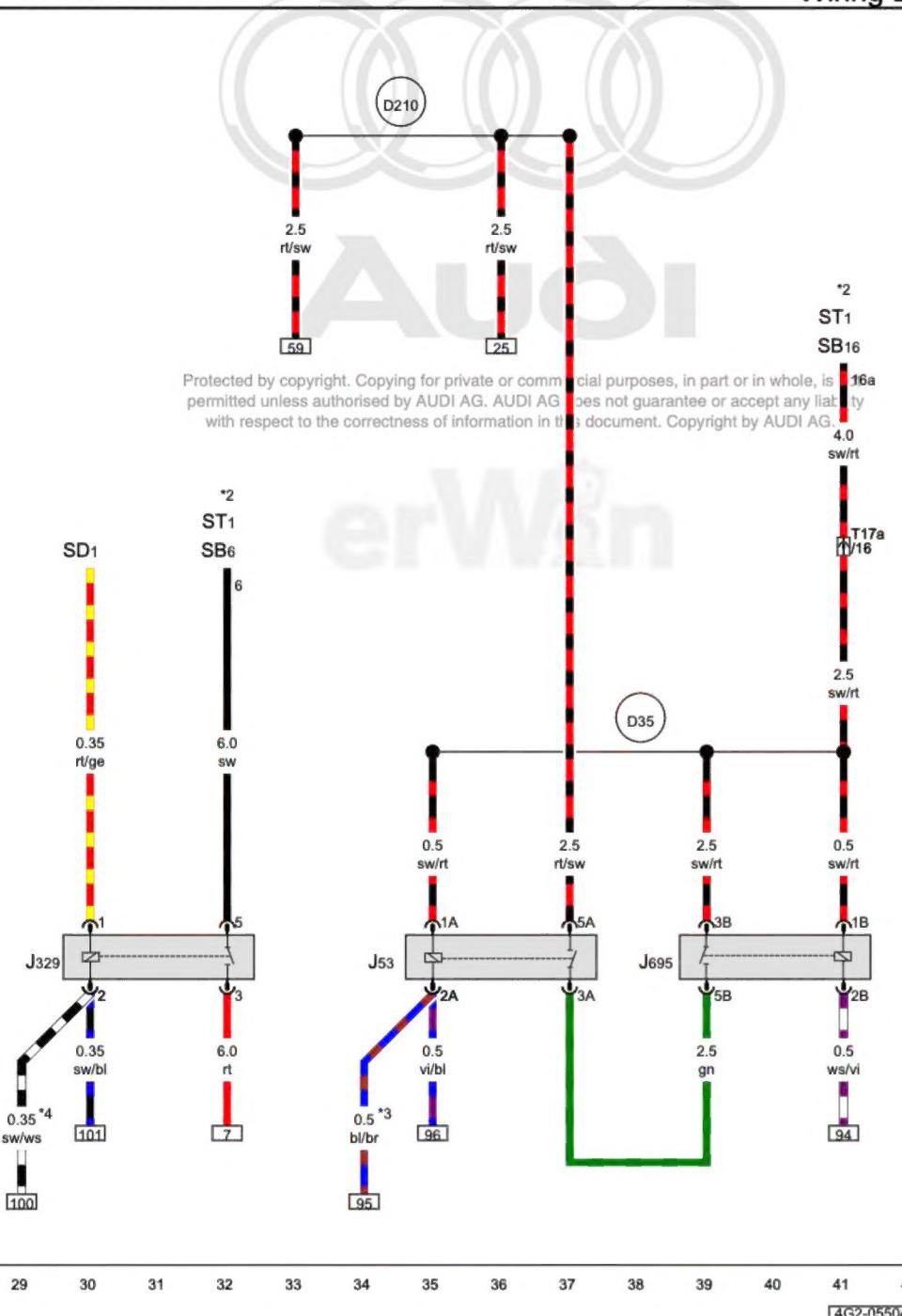
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Starter, Generator

- B Starter
- C Generator
- C1 Voltage Regulator
- S42 Radiator Fan Fuse
- S104 Radiator Fan Second Speed Fuse
- T2 2-Pin Connector
- T5 5-Pin Connector, In the Center Plenum Chamber
- T17a 17-Pin Connector, Left Plenum Chamber E-Box Connector Station
- U6 Battery Jump Start Terminal
- 13 Ground Connection in Engine/Motor Compartment, Right
- 18 Ground Connection on Cylinder Block
- * Depending on Equipment

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink



Starter Relay, Terminal 15 Power Supply Relay, Starter Relay 2

J53 Starter Relay
 J329 Terminal 15 Power Supply Relay
 J695 Starter Relay 2
 ST1 Fuse Panel 1
 SD1 Fuse 1 (On Fuse Panel D)
 SB6 Fuse 6 (On Fuse Panel B)
 SB16 Fuse 16 (On Fuse Panel B)
 T17a 17-Pin Connector, Left Plenum Chamber E-Box Connector Station

D35 Positive Connection 1 (15a) (in Engine Pre-Wiring Harness)

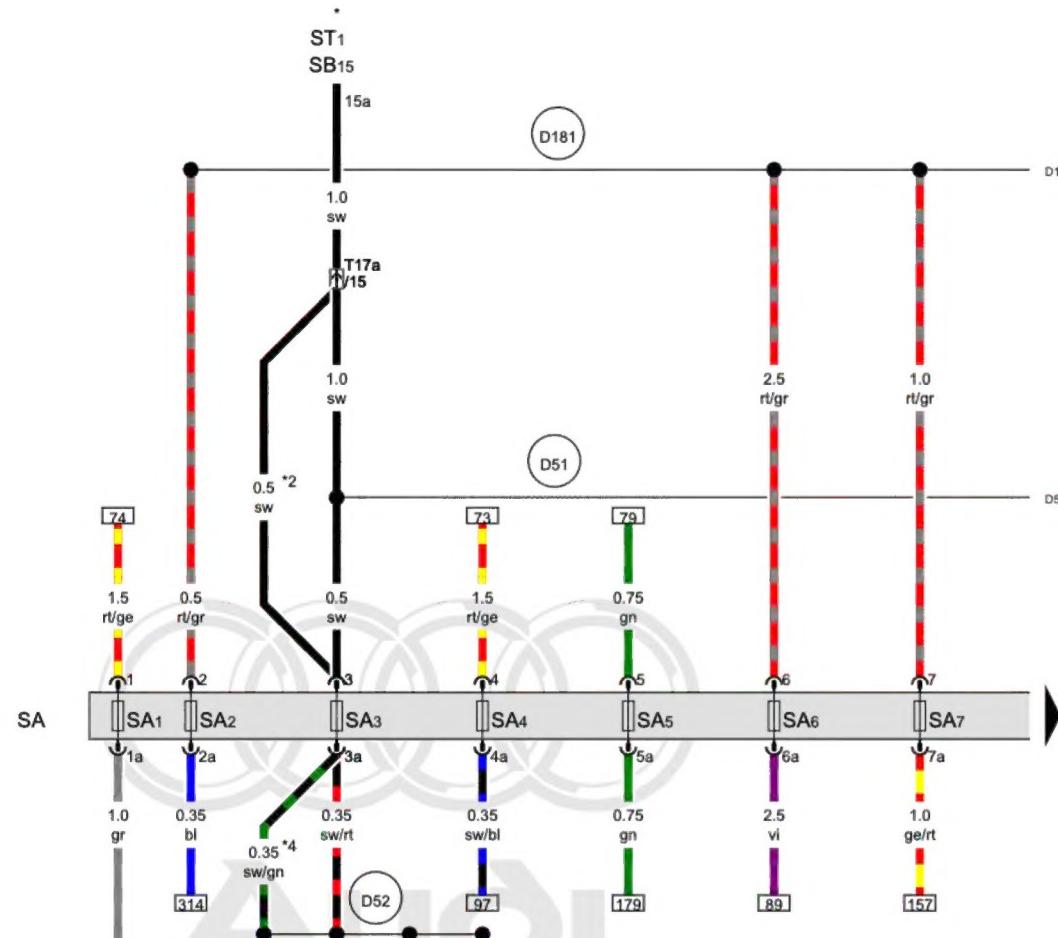
D210 Connection 50 (in Engine/Motor Compartment Wiring Harness)

- * Refer to Applicable Standard Equipment Wiring Diagram
- *2 Refer to Applicable Wiring Diagram for Fuse Positions
- *3 Running Change
- *4 For RHD Vehicles

ws	= white
sw	= black
ro	= red
rt	= red
br	= brown
gn	= green
bl	= blue
gr	= grey
li	= lilac
vi	= lilac
ge	= yellow
or	= orange
rs	= pink

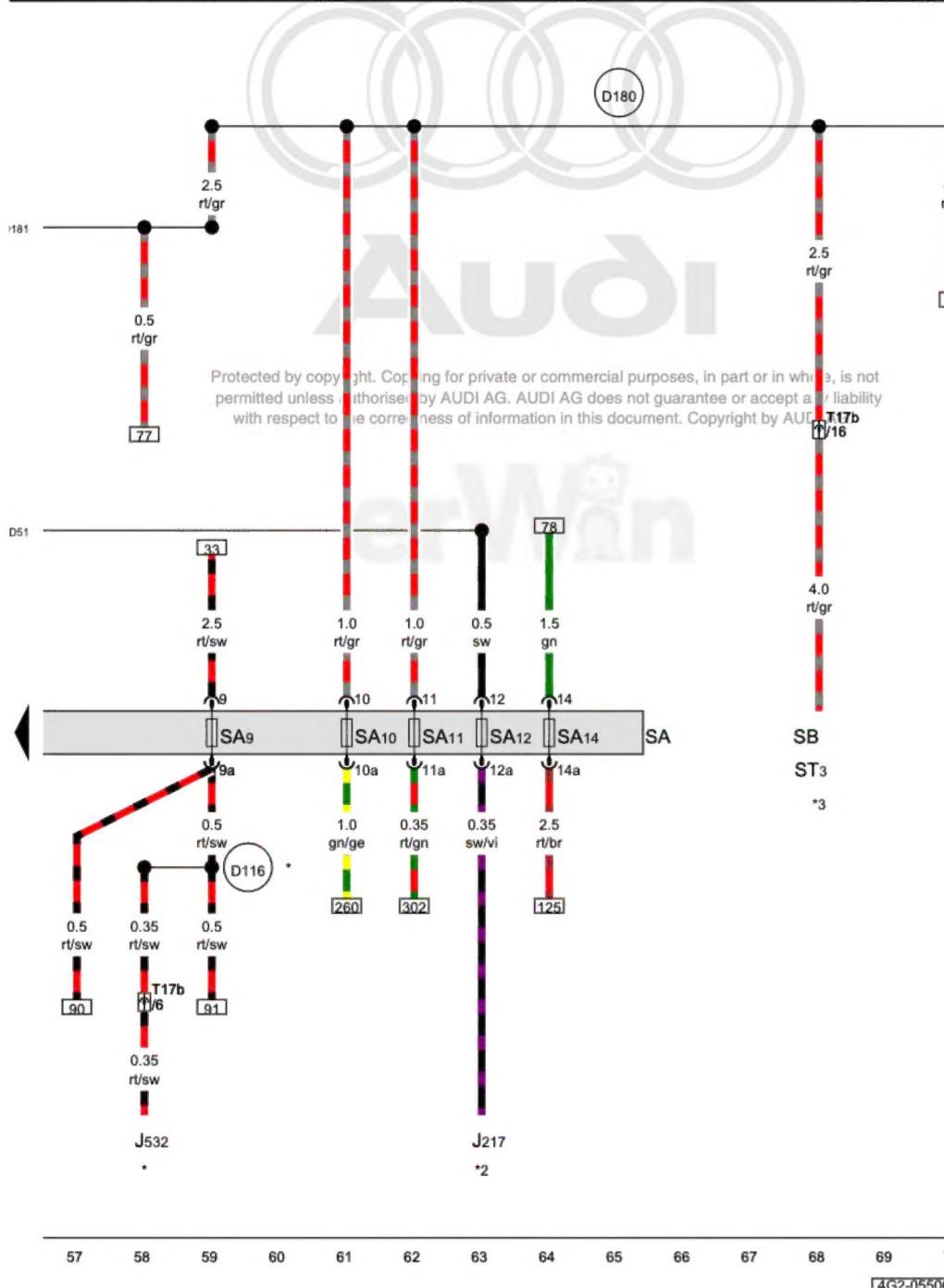
Fuse Panel A

- J217 Transmission Control Module
 SA Fuse Panel A
 ST1 Fuse Panel 1
 SA1 Fuse 1 (On Fuse Panel A)
 SA2 Fuse 2 (On Fuse Panel A)
 SA3 Fuse 3 (On Fuse Panel A)
 SA4 Fuse 4 (On Fuse Panel A)
 SA5 Fuse 5 (On Fuse Panel A)
 SA6 Fuse 6 (On Fuse Panel A)
 SA7 Fuse 7 (On Fuse Panel A)
 SB15 Fuse 15 (On Fuse Panel B)
 T17a 17-Pin Connector, Left Plenum Chamber E-Box Connector Station
 D181 Positive Connection 1 (15) (in Engine/Motor Compartment Wiring Harness)
 D51 Positive Connection (15a) (in Engine/Motor Compartment Wiring Harness)
 D52 Connection 2 (87A) (in Engine/Motor Compartment Wiring Harness)
 D181 Connection 2 (87A) (in Engine/Motor Compartment Wiring Harness)
- * Refer to Applicable Wiring Diagram for Fuse Positions
 *2 For Vehicles with a Manual Transmission
 *3 Refer to Applicable Wiring Diagram for Automatic Transmission Running Change
 *4



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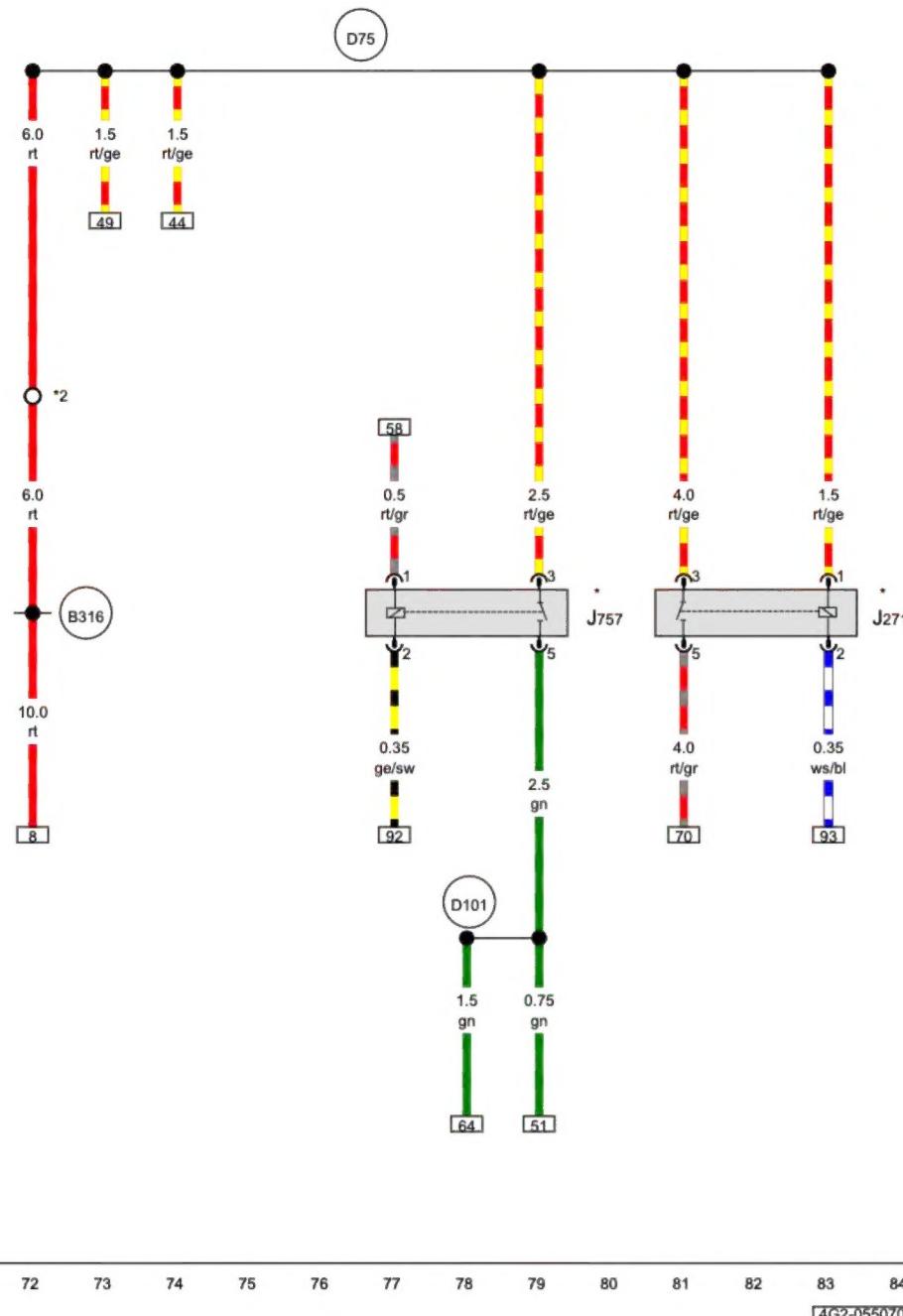
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Fuse Panel A

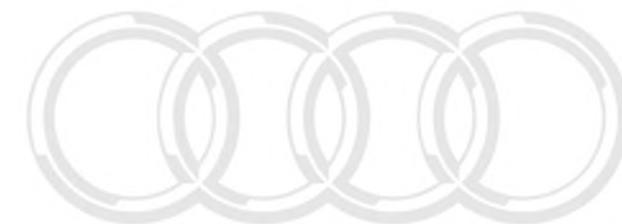
- J217 Transmission Control Module
 - J532 Voltage Stabilizer
 - SA Fuse Panel A
 - ST3 Fuse Panel 3
 - SA9 Fuse 9 (On Fuse Panel A)
 - SA10 Fuse 10 (On Fuse Panel A)
 - SA11 Fuse 11 (On Fuse Panel A)
 - SA12 Fuse 12 (On Fuse Panel A)
 - SA14 Fuse 14 (On Fuse Panel A)
 - SB Fuse Panel B
 - T17b 17-Pin Connector, Left Plenum Chamber E-Box Connector Station
 - D51 Positive Connection 1 (15) (in Engine/Motor Compartment Wiring Harness)
 - D116 Connection 14 (in Engine/Motor Compartment Wiring Harness)
 - D180 Connection 87A (in Engine/Motor Compartment Wiring Harness)
 - D181 Connection 2 (87A) (in Engine/Motor Compartment Wiring Harness)
- * For Vehicles with Start/Stop System
 *2 Refer to Applicable Wiring Diagram for Automatic Transmission
 *3 Refer to Applicable Wiring Diagram for Fuse Positions

ws = white
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 rt = red
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 ge = yellow
 or = orange
 rs = pink



Motronic Engine Control Module Power Supply Relay, Engine Component Power Supply Relay

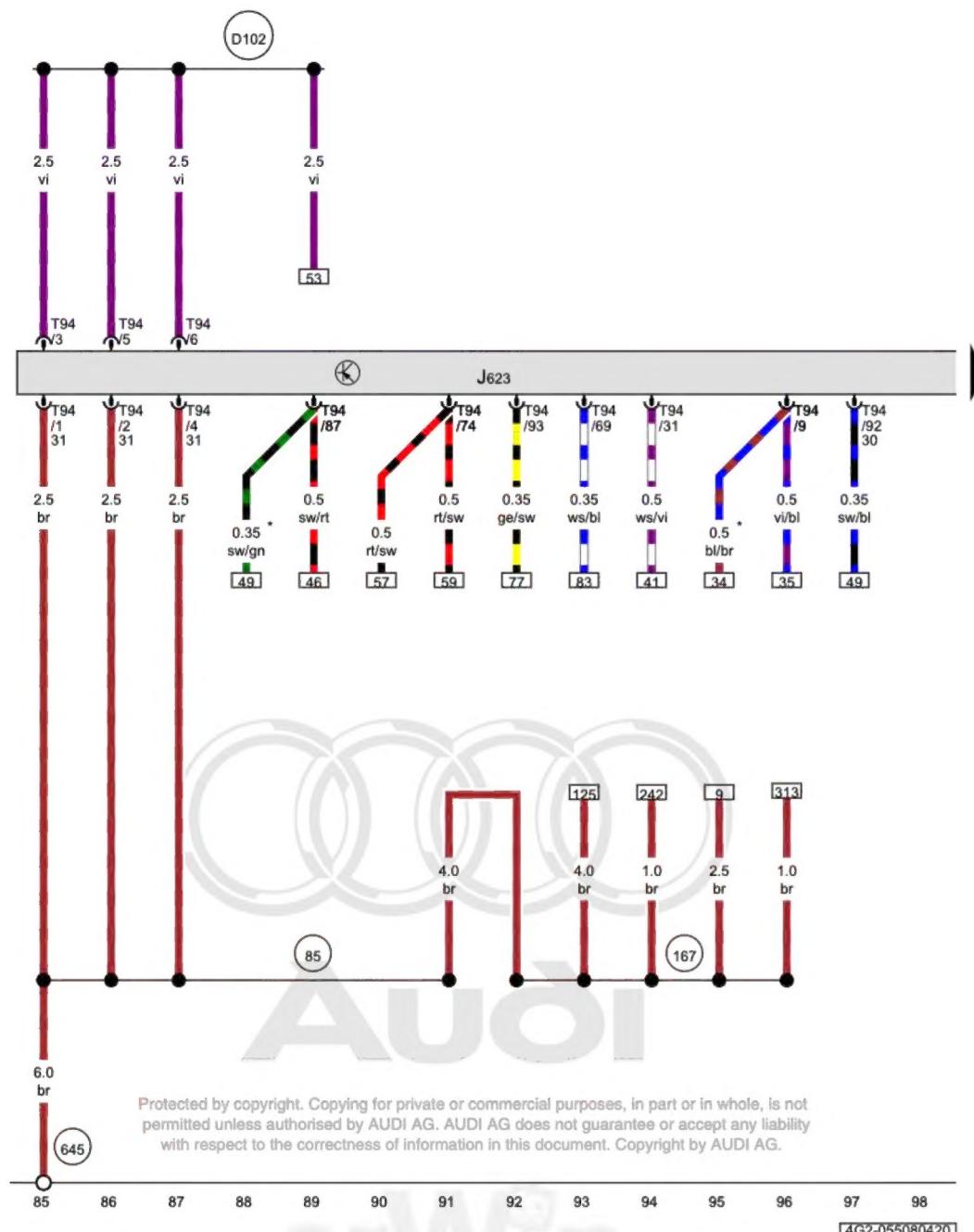
- J271 Motronic Engine Control Module Power Supply Relay
- J757 Engine Component Power Supply Relay
- (B316) Positive Connection 2 (30a) (in Main Wiring Harness)
- (D75) Positive Connection 2 (30) (in Engine/Motor Compartment Wiring Harness)
- (D101) Connection 1 (in Engine/Motor Compartment Wiring Harness)
- * Relay and Fuse Panel in the Plenum Chamber E-Box
- *2 Threaded Connection in the Plenum Chamber E-Box



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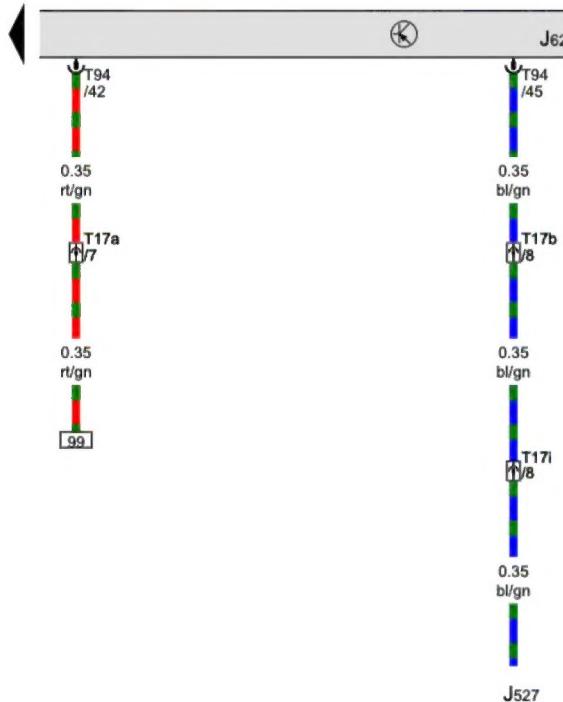
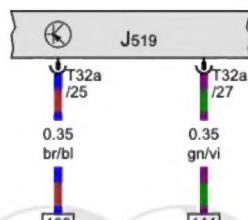
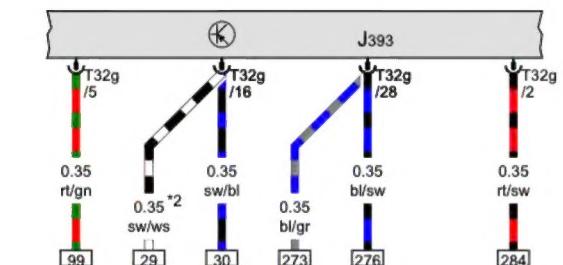
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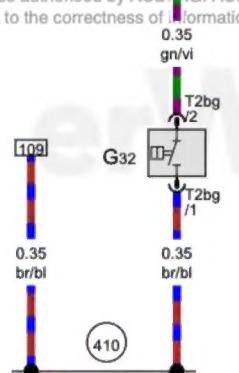
Engine/Motor Control Module

- J623 Engine/Motor Control Module
 - T94 94-Pin Connector
 - 85 Ground Connection 1 (in Engine/Motor Compartment Wiring Harness)
 - 167 Ground Connection 4 (in Engine/Motor Compartment Wiring Harness)
 - 645 Ground Connection 1 on Bulkhead
 - D102 Connection 2 (in Engine/Motor Compartment Wiring Harness)
- * Running Change

Engine Coolant Level Sensor, Vehicle Electrical System Control Module, Engine/Motor Control Module

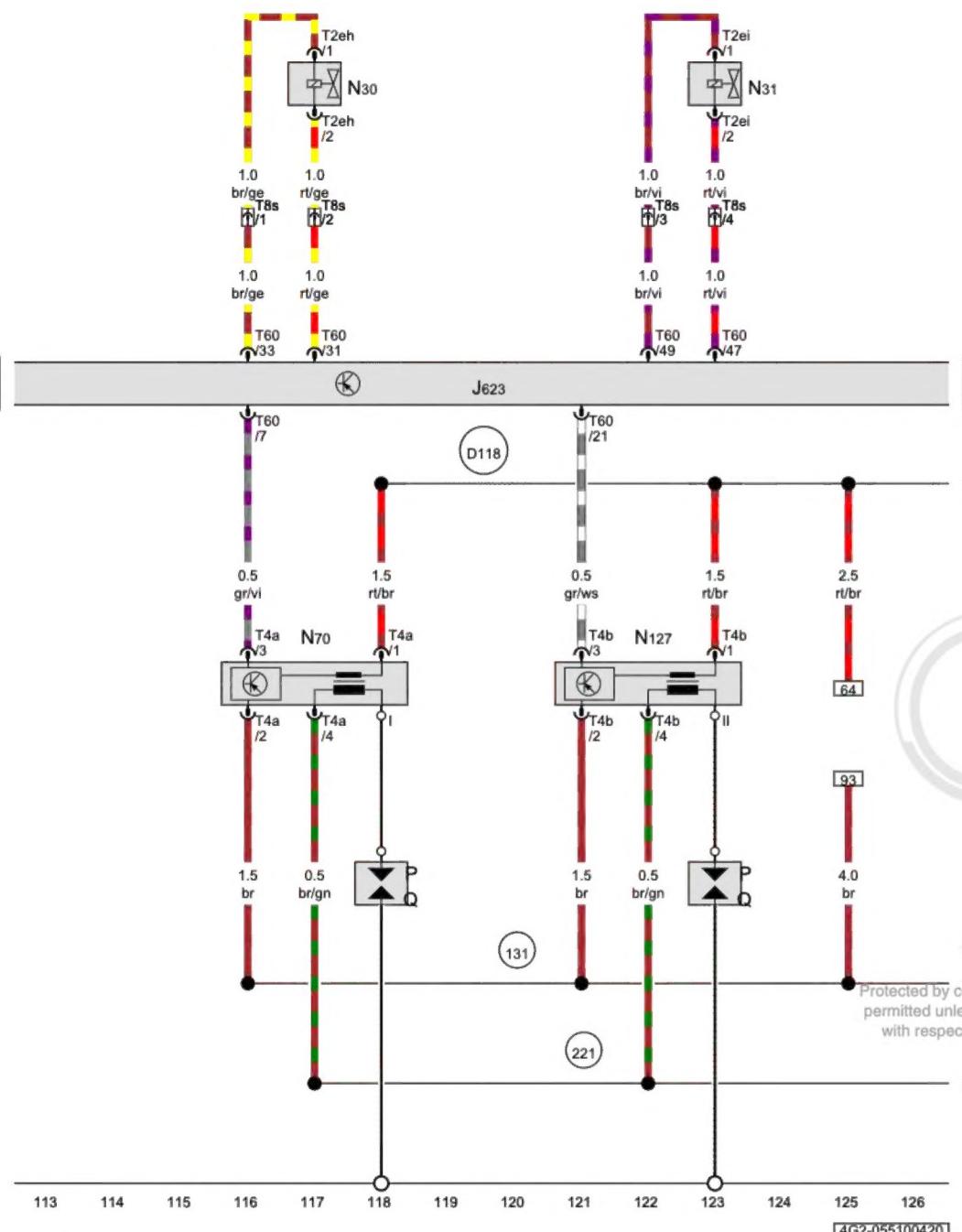


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bl	= blue
gr	= grey
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vi	= lilac
ge	= yellow
or	= orange
rs	= pink

99 100 101 102 103 104 105 106 107 108 109 110 111 112
F452-055094201



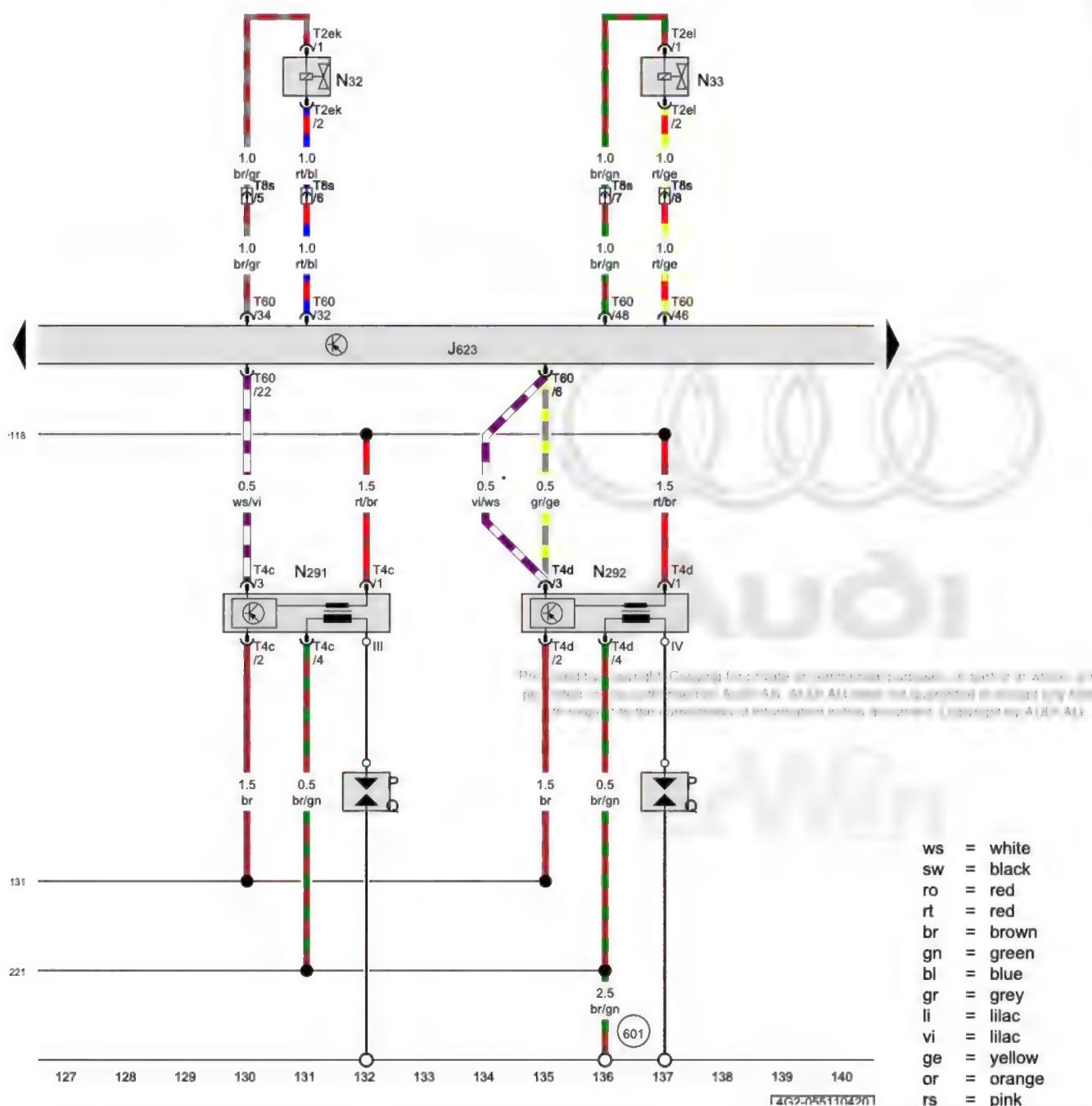
Engine/Motor Control Module, Cylinder 1 Fuel Injector,
Ignition Coil 1 with Power Output Stage, Spark Plug
Connectors, Spark Plugs

- J623 Engine/Motor Control Module
- N30 Cylinder 1 Fuel Injector
- N31 Cylinder 2 Fuel Injector
- N70 Ignition Coil 1 with Power Output Stage
- N127 Ignition Coil 2 with Power Output Stage
- P Spark Plug Connectors
- Q Spark Plugs
- T2eh 2-Pin Connector
- T2ei 2-Pin Connector
- T4a 4-Pin Connector
- T4b 4-Pin Connector
- T8s 8-Pin Connector, In the Engine/Motor Compartment, Right
- T60 60-Pin Connector
- 131 Ground Connection 2 (in Engine/Motor Compartment Wiring Harness)
- 221 Engine Ground Connection (in Engine Wiring Harness)
- D118 Connection 16 (in Engine/Motor Compartment Wiring Harness)

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gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink





Engine/Motor Control Module, Cylinder 4 Fuel Injector,
Ignition Coil 4 with Power Output Stage, Spark Plug
Connectors, Spark Plugs

- J623 Engine/Motor Control Module
 N32 Cylinder 3 Fuel Injector
 N33 Cylinder 4 Fuel Injector
 N291 Ignition Coil 3 with Power Output Stage
 N292 Ignition Coil 4 with Power Output Stage
 P Spark Plug Connectors
 Q Spark Plugs
 T2ek 2-Pin Connector
 T2el 2-Pin Connector
 T4c 4-Pin Connector
 T4d 4-Pin Connector
 T8s 8-Pin Connector, In the Engine/Motor Compartment, Right
 T60 60-Pin Connector
 131 Ground Connection 2 (in Engine/Motor Compartment Wiring Harness)
 221 Engine Ground Connection (in Engine Wiring Harness)
 601 Ground Connection on Cylinder Head, Left
 D118 Connection 16 (in Engine/Motor Compartment Wiring Harness)
- * Running Change

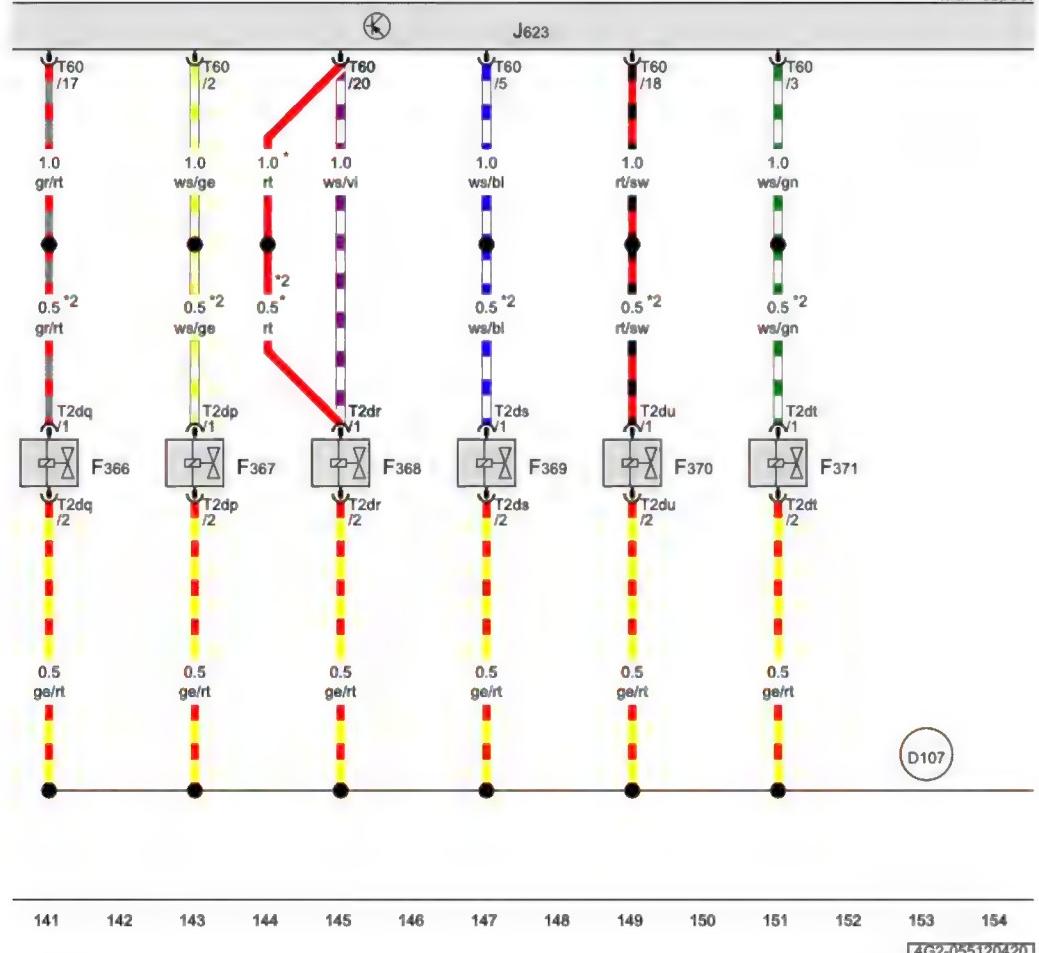
Cam Adjustment Actuator 2, Engine/Motor Control Module

F366 Cam Adjustment Actuator 1
 F367 Cam Adjustment Actuator 2
 F368 Cam Adjustment Actuator 3
 F369 Cam Adjustment Actuator 4
 F370 Cam Adjustment Actuator 5
 F371 Cam Adjustment Actuator 6
 J623 Engine/Motor Control Module
 T2dp 2-Pin Connector
 T2dq 2-Pin Connector
 T2dr 2-Pin Connector
 T2ds 2-Pin Connector
 T2dt 2-Pin Connector
 T2du 2-Pin Connector
 T60 60-Pin Connector

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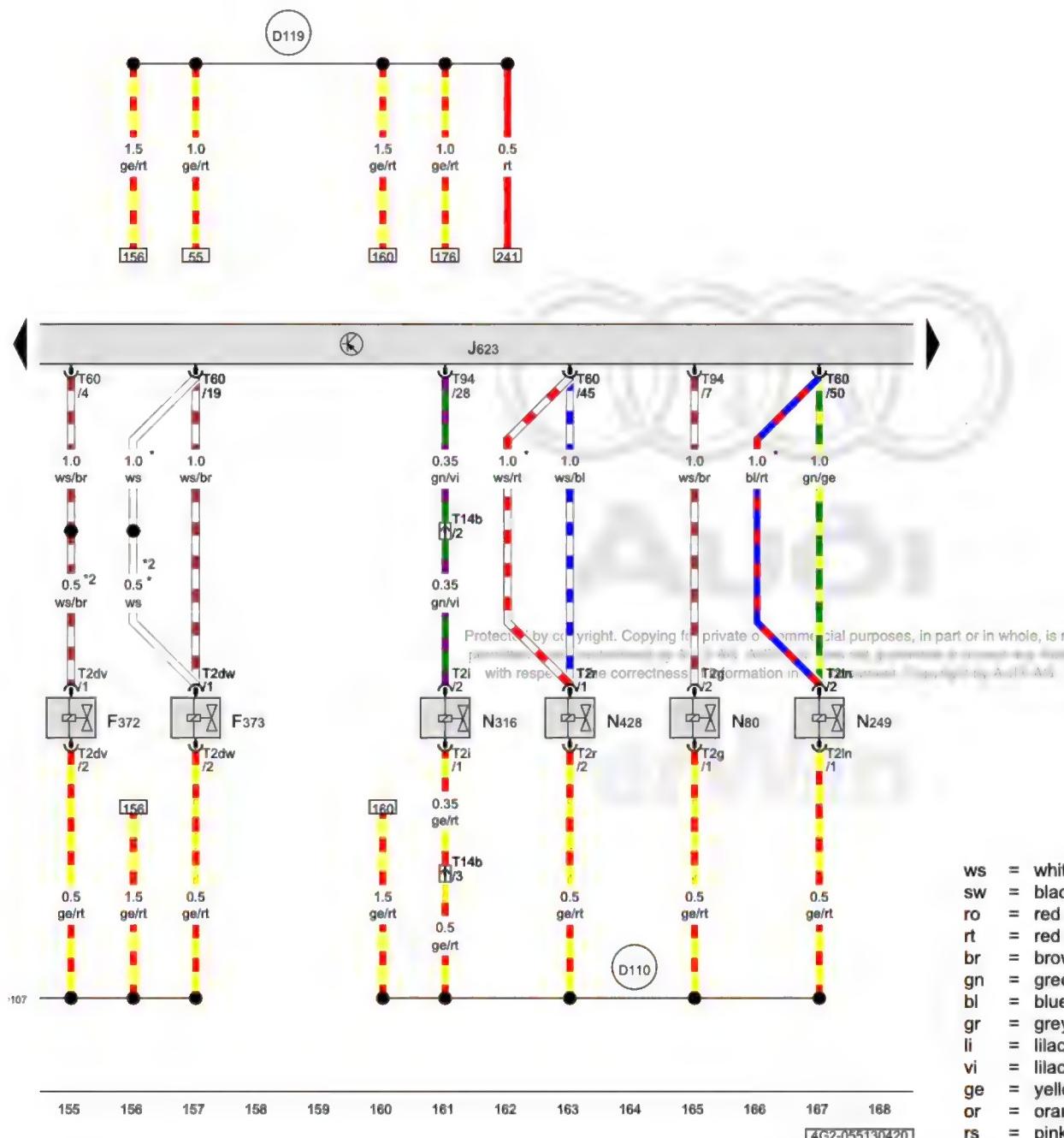
D107 Connection 5 (in Engine/Motor Compartment Wiring Harness)

- * Running Change
- *2 Diameter Depends on Equipment



ws	= white
sw	= black
ro	= red
rt	= red
br	= brown
gn	= green
bl	= blue
gr	= grey
li	= lilac
vi	= lilac
ge	= yellow
or	= orange
rs	= pink

141 142 143 144 145 146 147 148 149 150 151 152 153 154



Cam Adjustment Actuator 7, Engine/Motor Control Module,
EVAP Canister Purge Regulator Valve 1, Turbocharger
Recirculation Valve, Intake Manifold Runner Control Valve,
Oil Pressure Regulation Valve

- F372 Cam Adjustment Actuator 7
- F373 Cam Adjustment Actuator 8
- J623 Engine/Motor Control Module
- N80 EVAP Canister Purge Regulator Valve 1
- N249 Turbocharger Recirculation Valve
- N316 Intake Manifold Runner Control Valve
- N428 Oil Pressure Regulation Valve
- T2dv 2-Pin Connector
- T2dw 2-Pin Connector
- T2g 2-Pin Connector
- T2i 2-Pin Connector
- T2ln 2-Pin Connector
- T2r 2-Pin Connector
- T14b 14-Pin Connector, In the Engine/Motor Compartment, Left
- T60 60-Pin Connector
- T94 94-Pin Connector
- D107 Connection 5 (in Engine/Motor Compartment Wiring Harness)
- D110 Connection 8 (in Engine/Motor Compartment Wiring Harness)
- D119 Connection 17 (in Engine/Motor Compartment Wiring Harness)
- * Running Change
- *2 Diameter Depends on Equipment

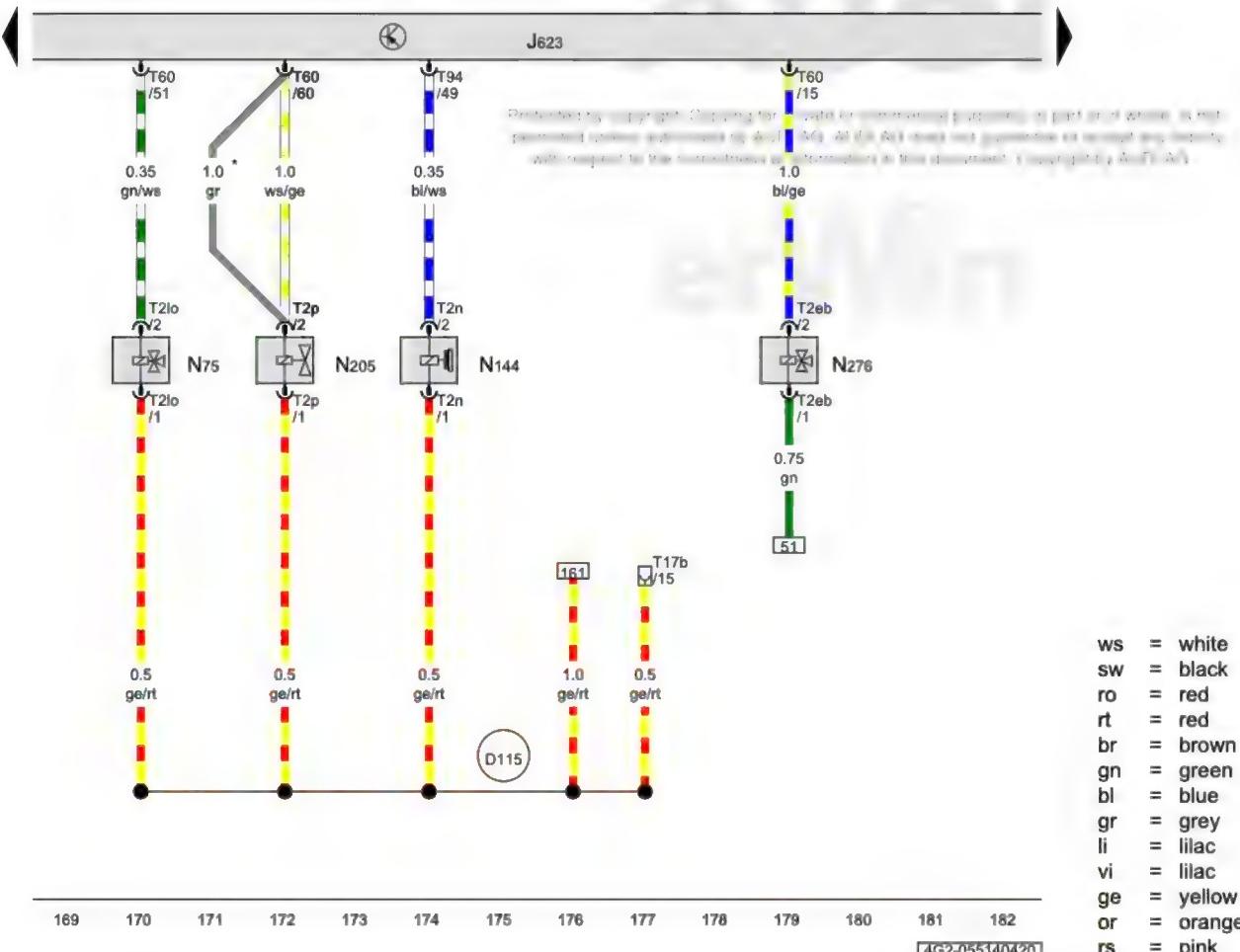
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 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
 rs = pink

Engine/Motor Control Module, Wastegate Bypass
Regulator Valve, Fuel Pressure Regulator Valve

J623 Engine/Motor Control Module
N75 Wastegate Bypass Regulator Valve
N144 Left Electrohydraulic Engine Mount Solenoid Valve
N205 Camshaft Adjustment Valve 1
N276 Fuel Pressure Regulator Valve
T2eb 2-Pin Connector
T2lo 2-Pin Connector
T2n 2-Pin Connector
T2p 2-Pin Connector
T17b 17-Pin Connector, Left Plenum Chamber E-Box Connector Station
T60 60-Pin Connector
T94 94-Pin Connector

D115 Connection 13 (in Engine/Motor Compartment Wiring Harness)

* Running Change

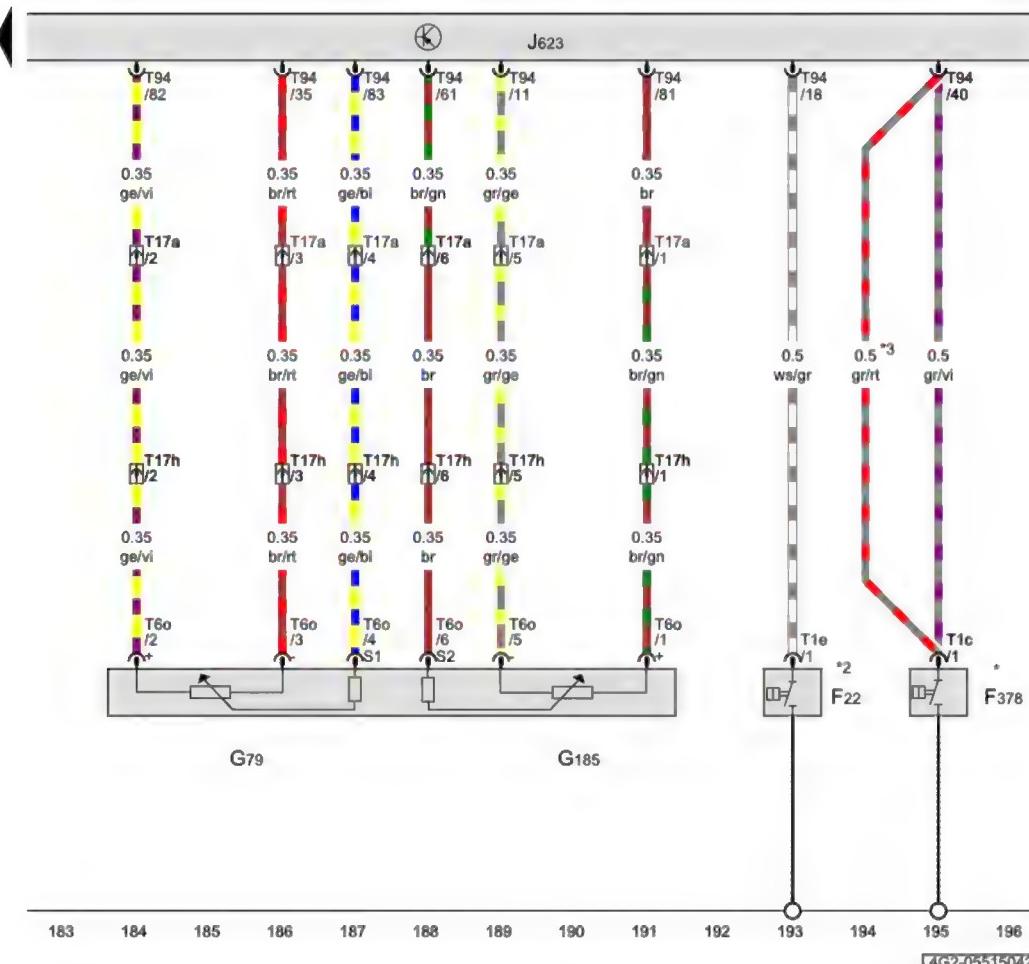


Legend for wire colors and types:

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sw	= black
ro	= red
rt	= red
br	= brown
gn	= green
bl	= blue
gr	= grey
li	= lilac
vi	= lilac
ge	= yellow
or	= orange
rs	= pink

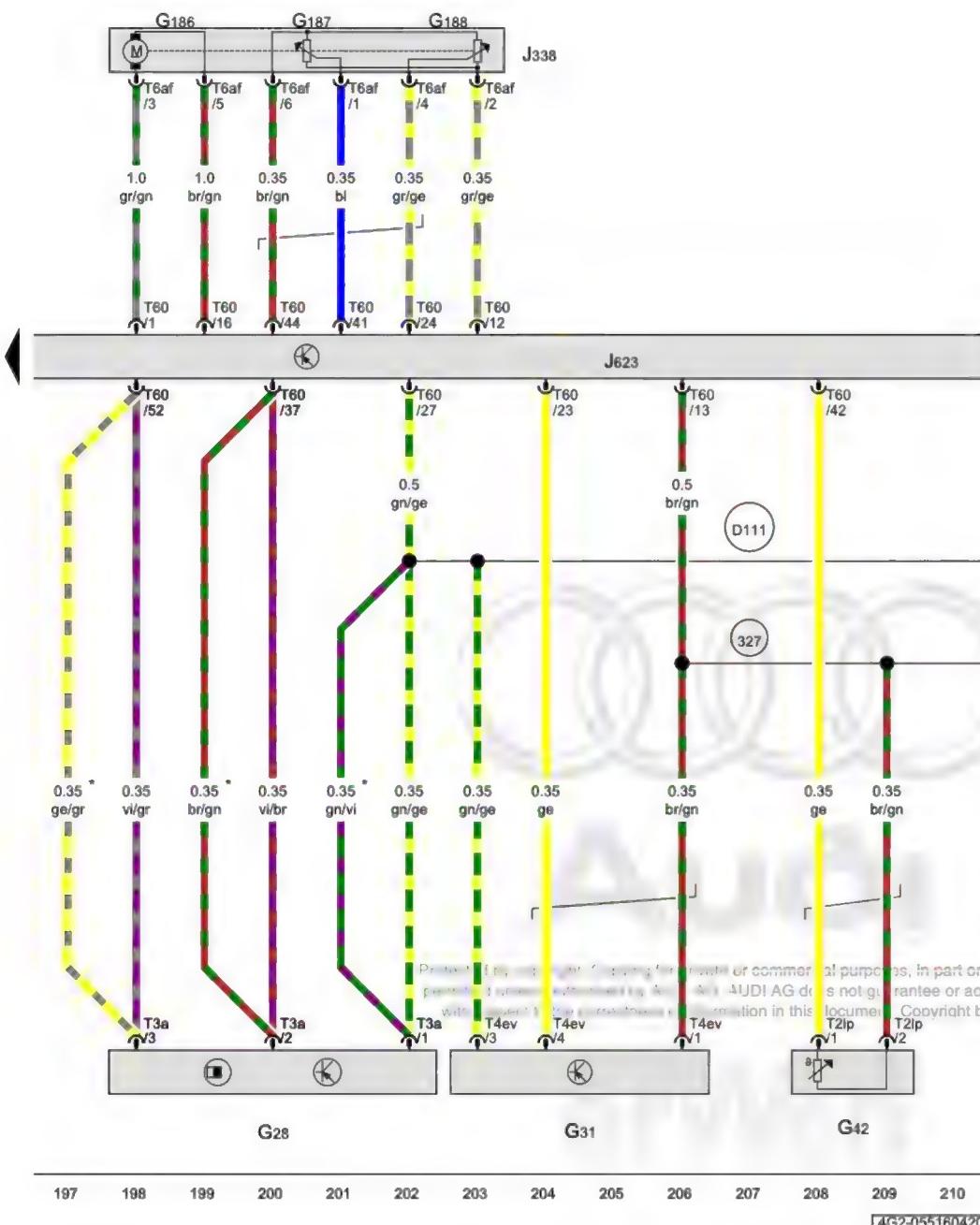
Oil Pressure Switch, Reduced Oil Pressure Switch,
Accelerator Pedal Position Sensor, Engine/Motor Control
Module

F22	Oil Pressure Switch
F378	Reduced Oil Pressure Switch
G79	Accelerator Pedal Position Sensor
G185	Accelerator Pedal Position Sensor 2
J623	Engine/Motor Control Module
T1c	1-Pin Connector
T1e	1-Pin Connector
T6o	6-Pin Connector
T17a	17-Pin Connector
T17h	17-Pin Connector, In the Left A-Pillar Connector Station
T94	94-Pin Connector
*	0.9 Bar
*2	2.6 Bar
*3	Running Change



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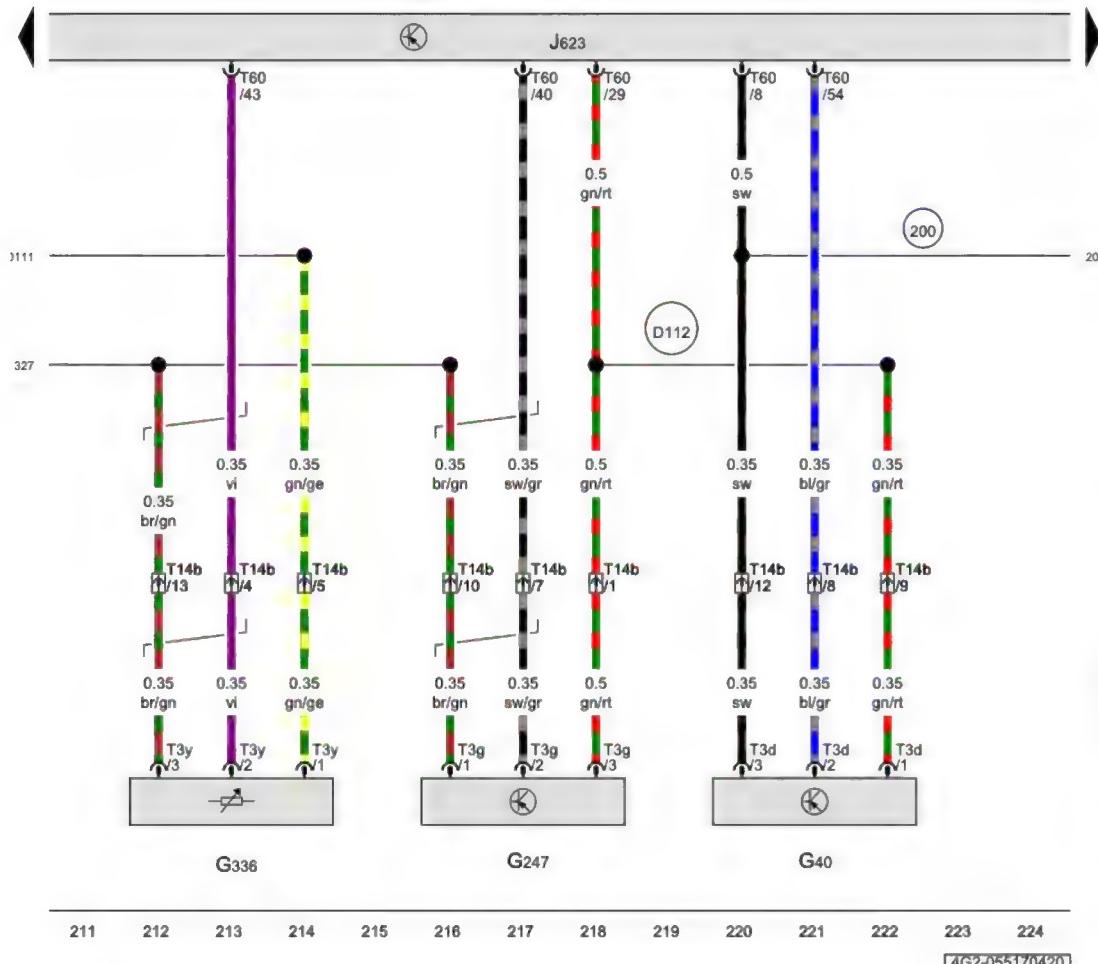


Engine Speed Sensor, Intake Air Temperature Sensor,
Throttle Valve Control Module, Engine/Motor Control
Module

- G28 Engine Speed Sensor
 G31 Charge Air Pressure Sensor
 G42 Intake Air Temperature Sensor
 G186 EPC Throttle Drive
 G187 EPC Throttle Drive Angle Sensor 1
 G188 EPC Throttle Drive Angle Sensor 2
 J338 Throttle Valve Control Module
 J623 Engine/Motor Control Module
 T2lp 2-Pin Connector
 T3a 3-Pin Connector
 T4ev 4-Pin Connector
 T6af 6-Pin Connector
 T60 60-Pin Connector
 327 Sensor Ground Connection (in Engine/Motor Compartment
Wiring Harness)
 D111 Connection 9 (in Engine/Motor Compartment Wiring Harness)
 * Running Change

Camshaft Position Sensor, Fuel Pressure Sensor, Intake Manifold Runner Position Sensor, Engine/Motor Control Module

- G40 Camshaft Position Sensor
- G247 Fuel Pressure Sensor
- G336 Intake Manifold Runner Position Sensor
- J623 Engine/Motor Control Module
- T3d 3-Pin Connector
- T3g 3-Pin Connector
- T3y 3-Pin Connector
- T14b 14-Pin Connector, In the Engine/Motor Compartment, Left
- T60 60-Pin Connector
- 200 Ground Connection Shielding (in Engine/Motor Compartment Wiring Harness)
- 327 Sensor Ground Connection (in Engine/Motor Compartment Wiring Harness)
- D111 Connection 9 (in Engine/Motor Compartment Wiring Harness)
- D112 Connection 10 (in Engine/Motor Compartment Wiring Harness)



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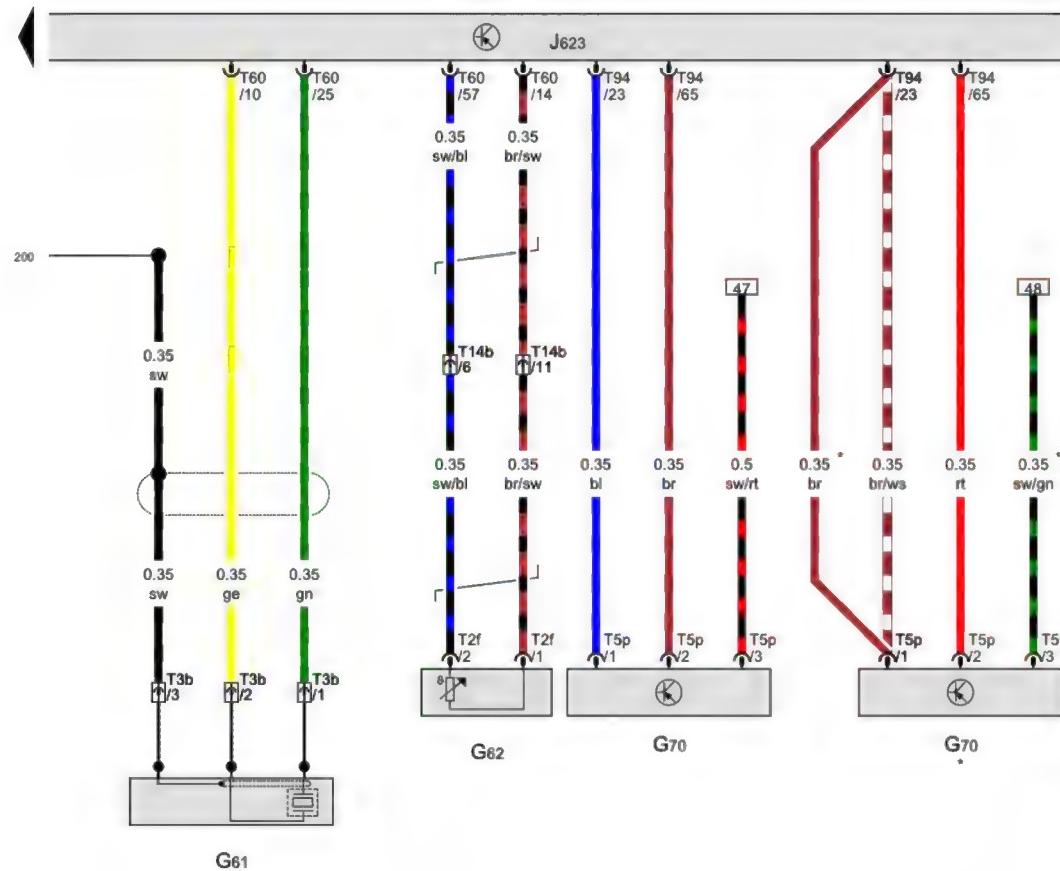
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 rt = red
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 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
 or = orange
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**Knock Sensor 1, Engine Coolant Temperature Sensor,
Engine/Motor Control Module**

- G61 Knock Sensor 1
- G62 Engine Coolant Temperature Sensor
- G70 Mass Airflow Sensor
- J623 Engine/Motor Control Module
- T2f 2-Pin Connector
- T3b 3-Pin Connector, Green
- T5p 5-Pin Connector
- T14b 14-Pin Connector, In the Engine/Motor Compartment, Left
- T60 60-Pin Connector
- T94 94-Pin Connector

200 Ground Connection Shielding (in Engine/Motor Compartment
Wiring Harness)

* Running Change

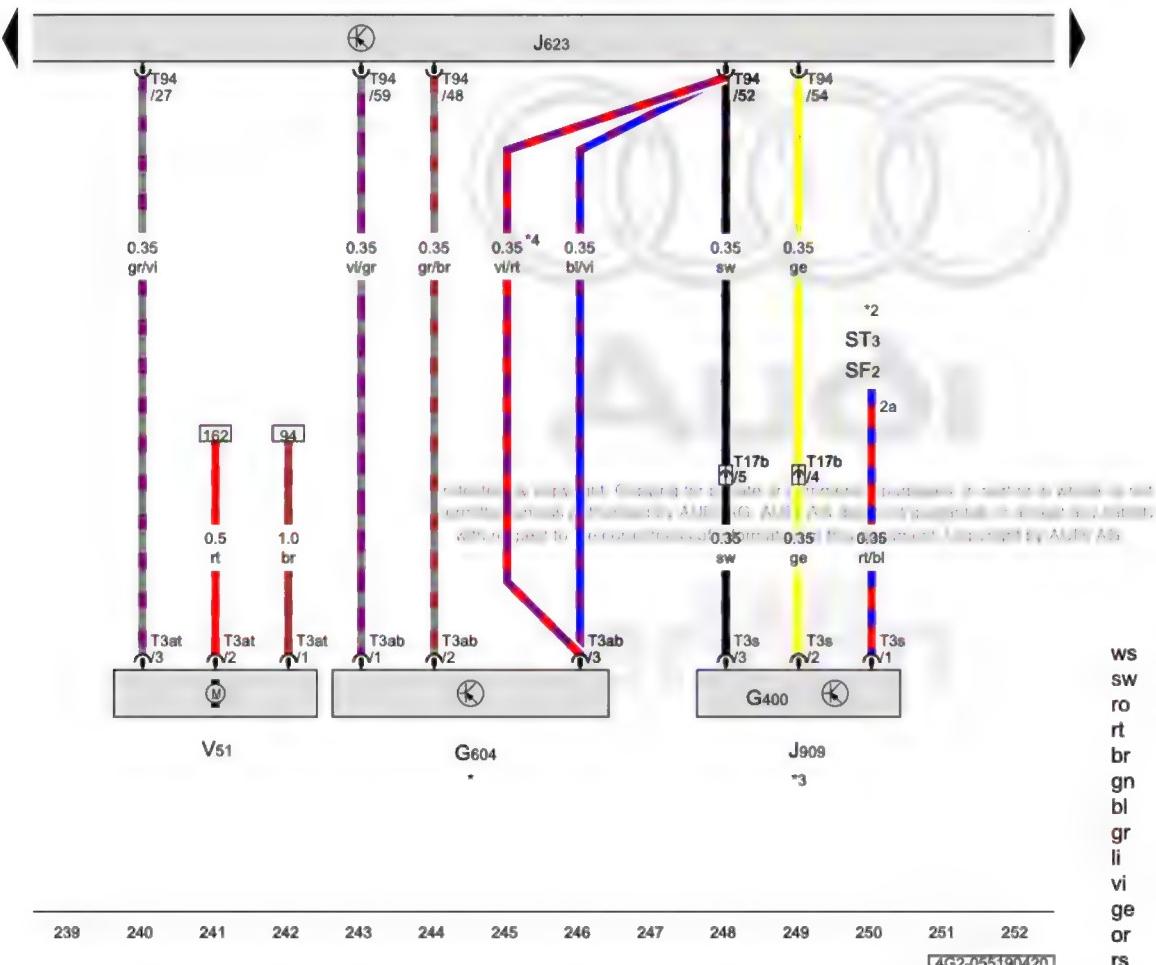


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 gn = green
 bl = blue
 gr = grey
 li = lilac
 vi = lilac
 ge = yellow
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Gear Recognition Sensor, Engine/Motor Control Module,
Fuel Tank Leak Detection Control Module

- G400 Fuel Tank Pressure Sensor
- G604 Gear Recognition Sensor
- J623 Engine/Motor Control Module
- J909 Fuel Tank Leak Detection Control Module
- SF2 Fuse 2 (On Fuse Panel F)
- ST3 Fuse Panel 3
- T3ab 3-Pin Connector
- T3at 3-Pin Connector
- T3s 3-Pin Connector
- T17b 17-Pin Connector, Left Plenum Chamber E-Box Connector Station
- T94 94-Pin Connector
- V51 After-Run Coolant Pump
- * For Vehicles with a Manual Transmission
- *2 Refer to Applicable Wiring Diagram for Fuse Positions
- *3 For Vehicles with Fuel System Diagnostic Pump
- *4 Running Change



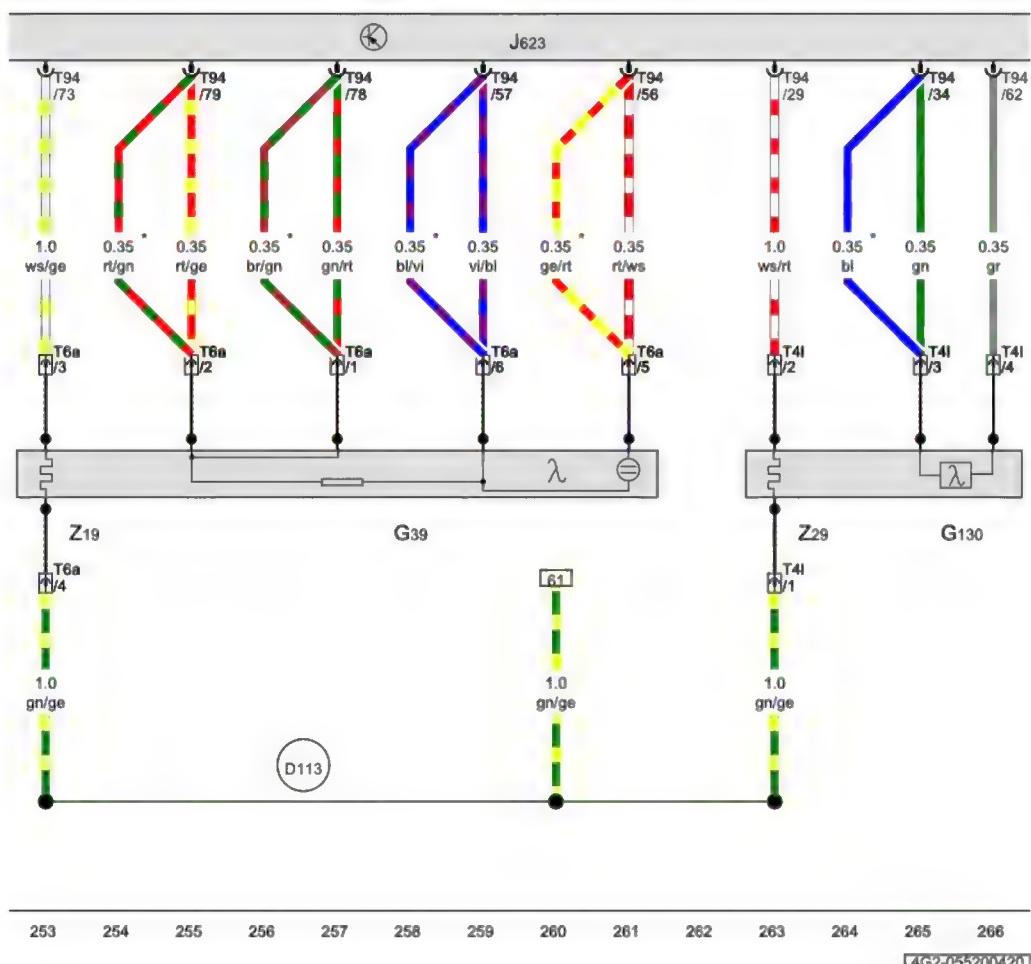
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br	= brown
gn	= green
bl	= blue
gr	= grey
li	= lilac
vi	= lilac
ge	= yellow
or	= orange
rs	= pink

Heated Oxygen Sensor, Oxygen Sensor After Catalytic Converter, Engine/Motor Control Module

G39 Heated Oxygen Sensor
 G130 Oxygen Sensor After Catalytic Converter
 J623 Engine/Motor Control Module
 T4I 4-Pin Connector, Black
 T6a 6-Pin Connector, Black
 T94 94-Pin Connector
 Z19 Oxygen Sensor Heater
 Z29 Heater for Oxygen Sensor 1 After Catalytic Converter

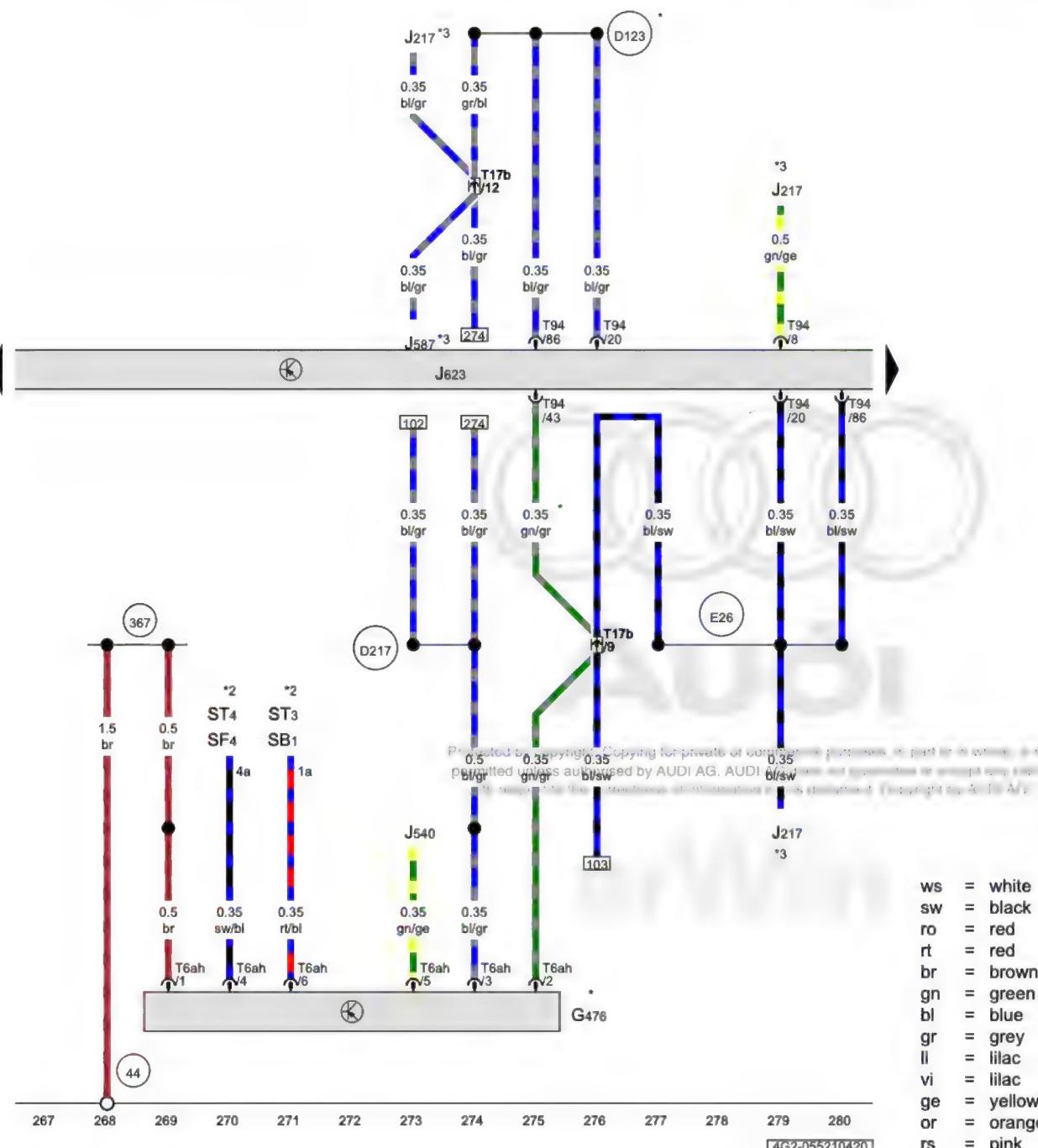
D113 Connection 11 (in Engine/Motor Compartment Wiring Harness)

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Running Change
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253 254 255 256 257 258 259 260 261 262 263 264 265 266

F4G2-0552004201



Clutch Position Sensor, Electromechanical Parking Brake Control Module, Engine/Motor Control Module

- G476 Clutch Position Sensor
- J217 Transmission Control Module
- J540 Electromechanical Parking Brake Control Module
- J587 Selector Lever Sensor System Control Module
- J623 Engine/Motor Control Module
- SB1 Fuse 1 (On Fuse Panel B)
- ST3 Fuse Panel 3
- SF4 Fuse 4 (On Fuse Panel F)
- ST4 Fuse Panel 4
- T6ah 6-Pin Connector
- T17b 17-Pin Connector
- T94 94-Pin Connector
- 44 Ground Connection on A-Pillar, Lower Left
- 367 Ground Connection 2 (in Main Wiring Harness)
- D123 Connection 21 (in Engine/Motor Compartment Wiring Harness)
- D217 Selector Lever P/N Position Connection (in Main Wiring Harness)
- E26 Selector Lever P/N Position Connection (in Motronic Multiform Fuel Injection Wiring Harness)
- * For Vehicles with a Manual Transmission
- *2 Refer to Applicable Wiring Diagram for Fuse Positions
- *3 Refer to Applicable Wiring Diagram for Automatic Transmission

ws = white
 sw = black
 ro = red
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 or = orange
 rs = pink

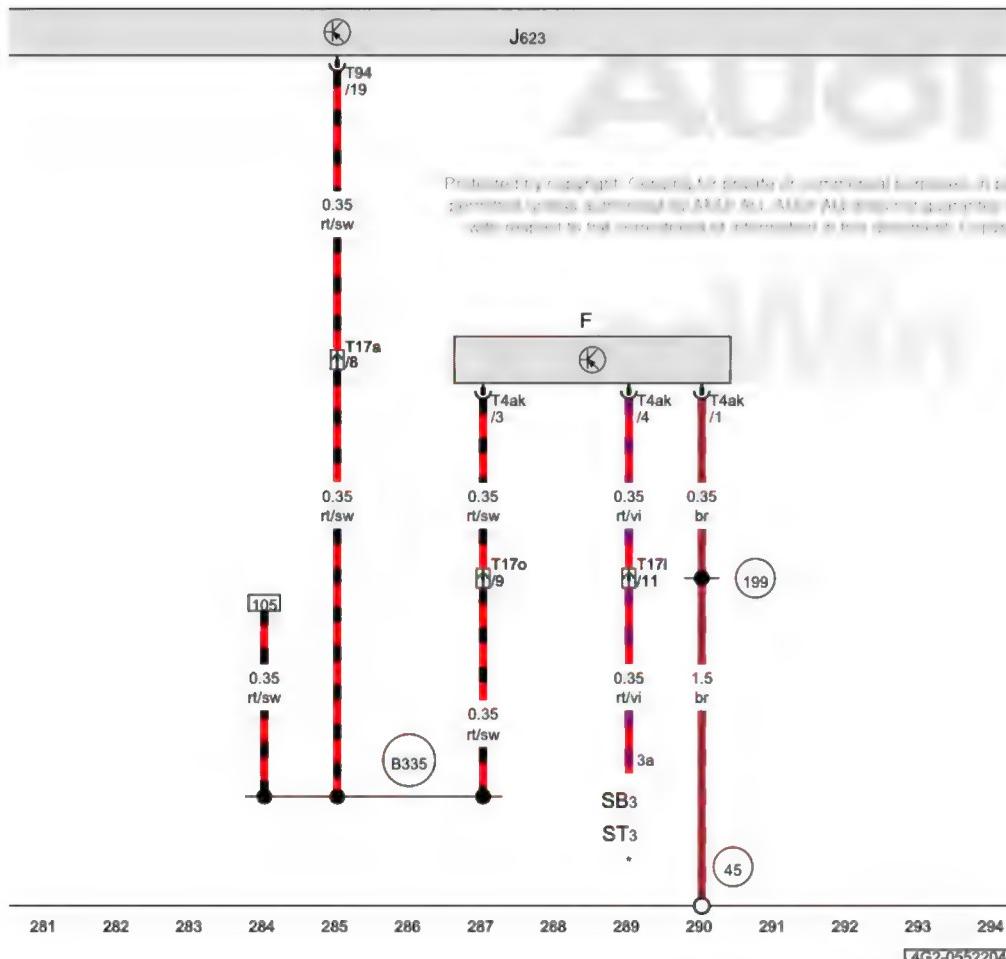
Brake Lamp Switch, Engine/Motor Control Module

F	Brake Lamp Switch
J623	Engine/Motor Control Module
SB3	Fuse 3 (On Fuse Panel B)
ST3	Fuse Panel 3
T4ak	4-Pin Connector
T17a	17-Pin Connector, Left Plenum Chamber E-Box Connector Station
T17i	17-Pin Connector, In the Left A-Pillar Connector Station
T17o	17-Pin Connector, In the Connector Station, Right A-Pillar
T94	94-Pin Connector

- 45** Ground Connection Behind Instrument Panel, Center
 - 199** Ground Connection 3 (in Instrument Panel Wiring Harness)
 - B335** Connection 54 (in Main Wiring Harness) 1

- * Refer to Applicable Wiring Diagram for Fuse Positions

Proteinase K treatment of the precipitate removed all the proteins, leaving a white precipitate which was then washed with 80% (v/v) acetone. After centrifugation at 10,000 rev./min for 1 h, the supernatant was discarded and the precipitate was washed with 80% (v/v) acetone.



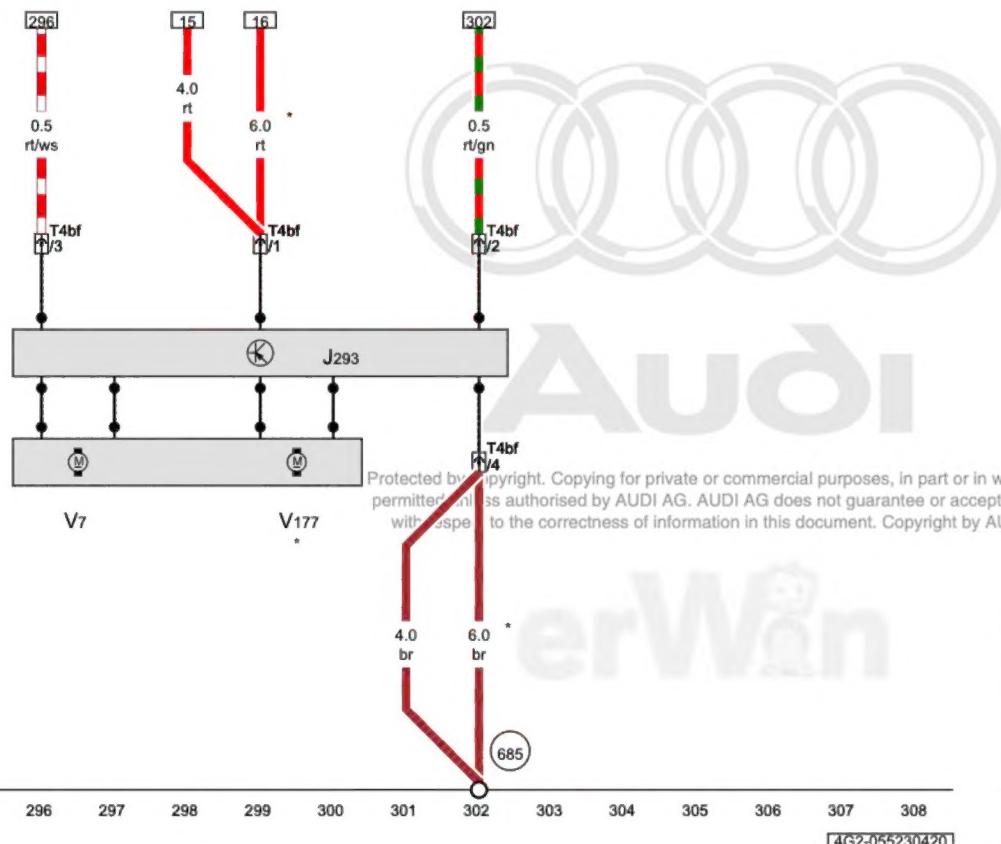
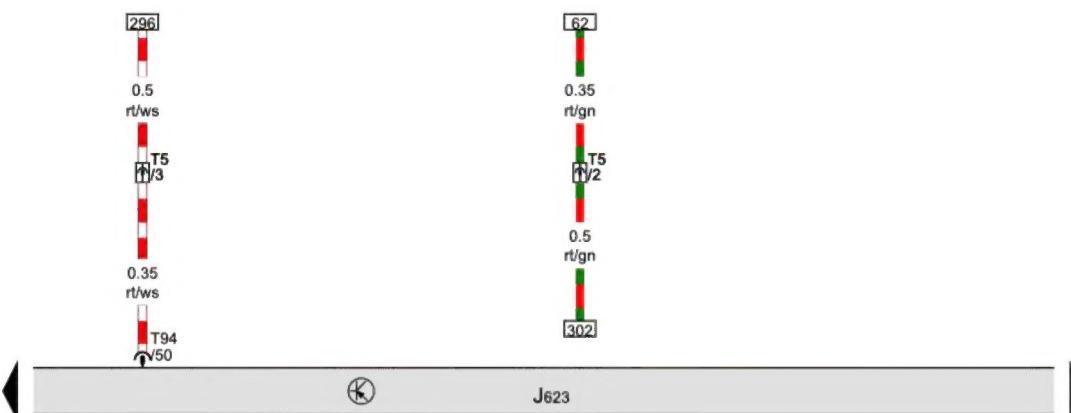
ws	= white
sw	= black
ro	= red
rt	= red
br	= brown
gn	= green
bl	= blue
gr	= grey
li	= lilac
vi	= lilac
ge	= yellow
or	= orange
rs	= pink

Radiator Fan Control Module, Engine/Motor Control Module, Radiator Fan, Radiator Fan 2

J293 Radiator Fan Control Module
 J623 Engine/Motor Control Module
 T4bf 4-Pin Connector
 T5 5-Pin Connector, In the Center Plenum Chamber
 T94 94-Pin Connector
 V7 Radiator Fan
 V177 Radiator Fan 2

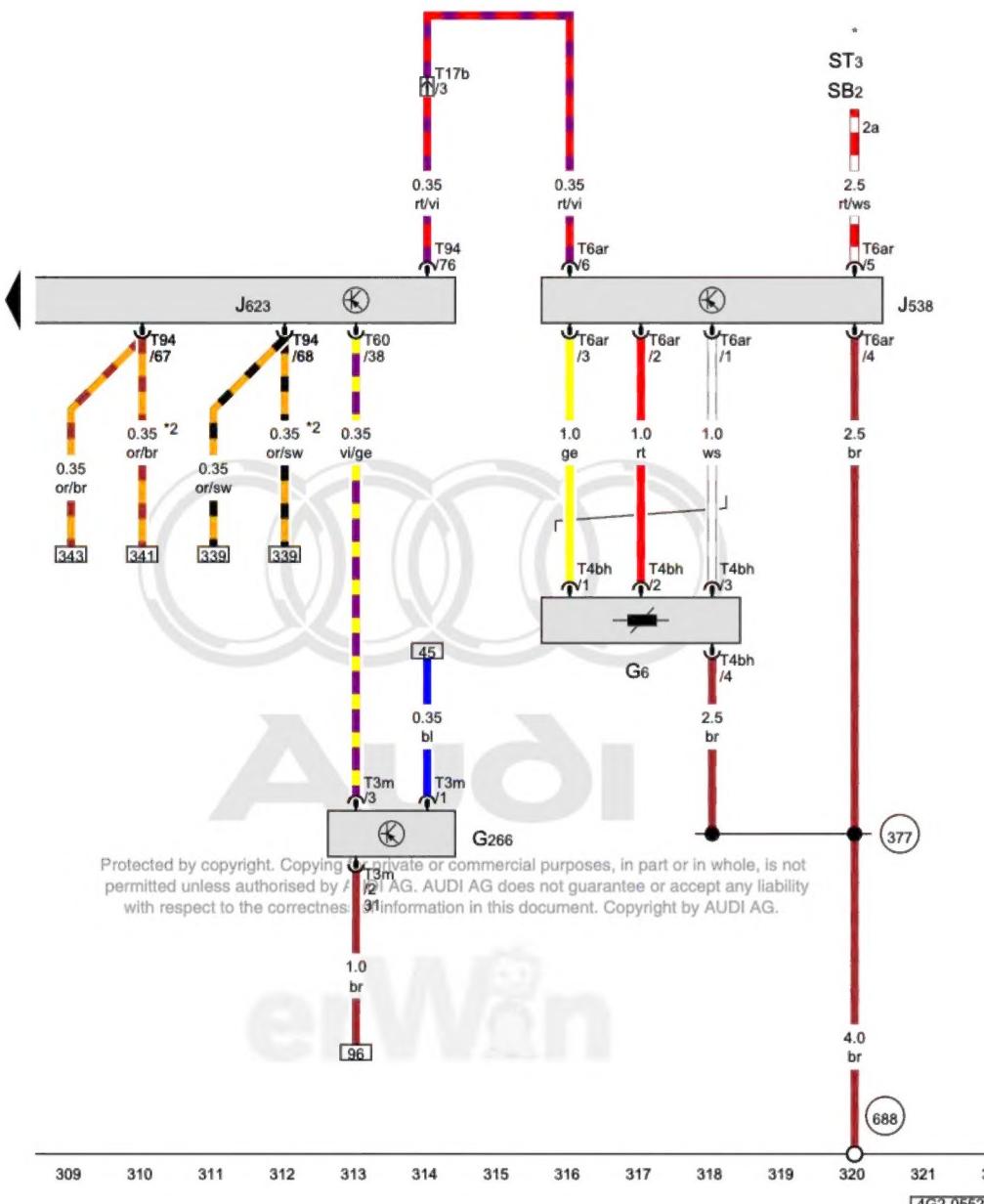
685 Ground Connection 1 on Right Front Longitudinal Member

* Depending on Equipment



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Transfer Fuel Pump, Oil Level Thermal Sensor, Fuel Pump Control Module, Engine/Motor Control Module



- G6 Transfer Fuel Pump
- G266 Oil Level Thermal Sensor
- J538 Fuel Pump Control Module
- J623 Engine/Motor Control Module
- SB2 Fuse 2 (On Fuse Panel B)
- ST3 Fuse Panel 3
- T3m 3-Pin Connector
- T4bh 4-Pin Connector
- T6ar 6-Pin Connector
- T17b 17-Pin Connector
- T60 60-Pin Connector
- T94 94-Pin Connector

377 Ground Connection 12 (in Main Wiring Harness)

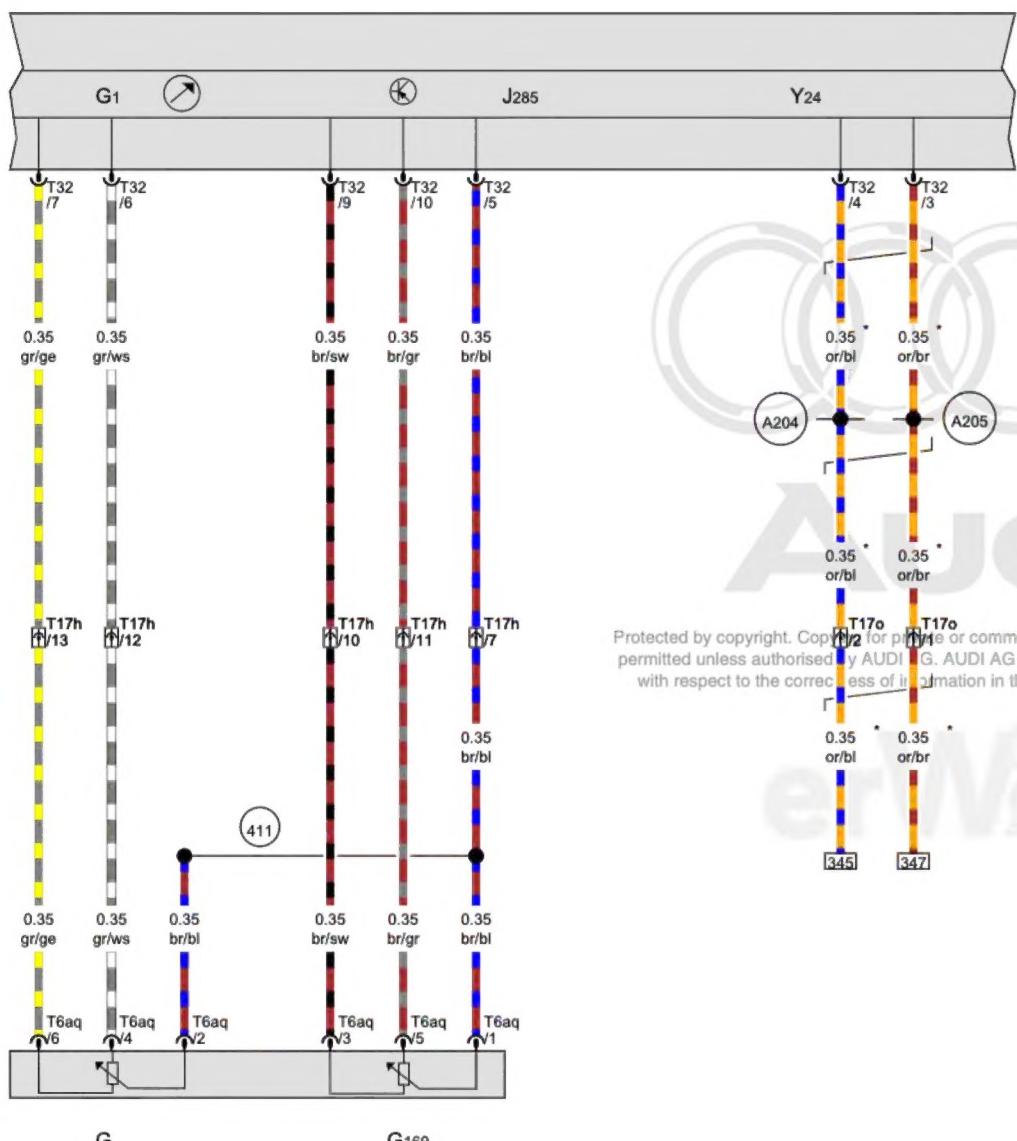
688 Ground Connection 2 on Center Tunnel

* Refer to Applicable Wiring Diagram for Fuse Positions

*2 For Vehicles with a Manual Transmission

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- | | |
|----|----------|
| ws | = white |
| sw | = black |
| ro | = red |
| rt | = red |
| br | = brown |
| gn | = green |
| bl | = blue |
| gr | = grey |
| li | = lilac |
| vi | = lilac |
| ge | = yellow |
| or | = orange |
| rs | = pink |



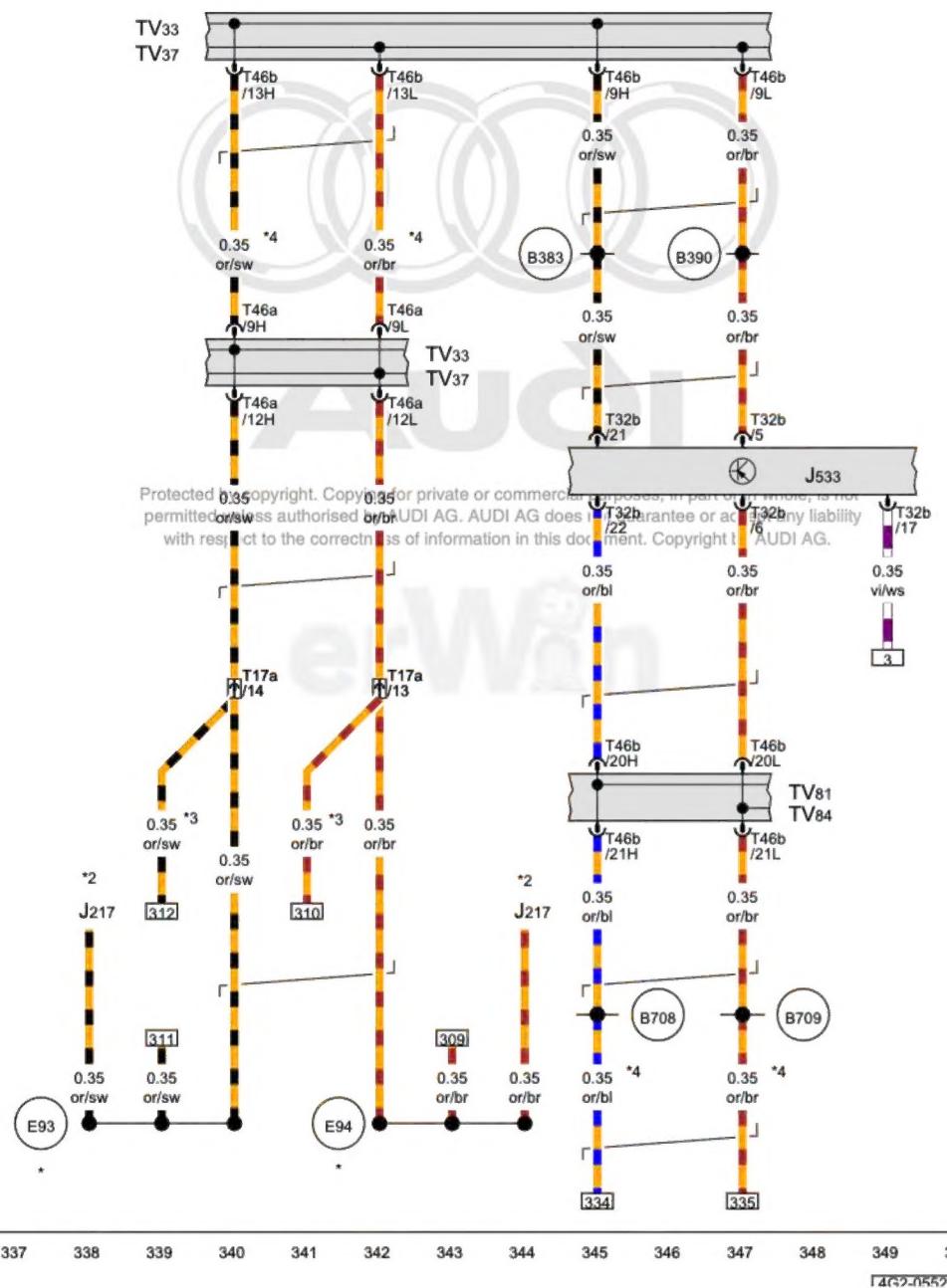
Fuel Gauge, Fuel Level Sensor 2, Instrument Cluster Control Module

- G Fuel Level Sensor
- G1 Fuel Gauge
- G169 Fuel Level Sensor 2
- J285 Instrument Cluster Control Module
- T6aq 6-Pin Connector
- T17h 17-Pin Connector, In the Left A-Pillar Connector Station
- T17o 17-Pin Connector, In the Connector Station, Right A-Pillar
- T32 32-Pin Connector
- Y24 Display Unit in Instrument Cluster
- 411 Sensor Ground Connection 2 (in Main Wiring Harness)
- A204 Instrument Cluster CAN Bus High Connection (in Instrument Panel Wiring Harness)
- A205 Instrument Cluster CAN Bus Low Connection (in Instrument Panel Wiring Harness)
- * Data Bus Wire (CAN Bus)

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Data Bus on Board Diagnostic Interface, Powertrain CAN Bus High Wire Junction, Instrument Cluster CAN Bus High Wire Junction 2



- J217 Transmission Control Module
 J533 Data Bus on Board Diagnostic Interface
 T17a 17-Pin Connector, Left Plenum Chamber E-Box Connector Station
 T32b 32-Pin Connector
 T46a 46-Pin Connector
 T46b 46-Pin Connector
 TV33 Powertrain CAN Bus High Wire Junction
 TV37 Powertrain CAN Bus Low Wire Junction
 TV81 Instrument Cluster CAN Bus High Wire Junction 2
 TV84 Instrument Cluster CAN Bus Low Wire Junction 2
- (B383) Powertrain CAN Bus High Connection 1 (in Main Wiring Harness)
 (B390) Powertrain CAN Bus Low Connection 1 (in Main Wiring Harness)
 (B708) Instrument Cluster CAN Bus High Connection 1 (in Main Wiring Harness)
 (B709) Instrument Cluster CAN Bus Low Connection 1 (in Main Wiring Harness)
 (E93) CAN Bus High Connection 1 (in Engine Wiring Harness)
 (E94) CAN Bus Low Connection 1 (in Engine Wiring Harness)

- * For Vehicles with Automatic Transmission
- *2 Refer to Applicable Wiring Diagram for Automatic Transmission
- *3 For Vehicles with a Manual Transmission
- *4 Data Bus Wire (CAN Bus)

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sw	= black
ro	= red
rt	= red
br	= brown
gn	= green
bl	= blue
gr	= grey
li	= lilac
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